

TheraProteins

Catalogue



Version: January 2010



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Contacts and Directions

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Fax: +351 214469459

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2780-157 Oeiras, PORTUGAL
Tel: 00351214469457 (Lab); Fax: 00351 214469459

How to place an Order Note

An Order Note can be place by **e-mail** or by **Fax**. In the order note should be discriminated:

- Your purchase order number;
- Catalogue number and amount of the desired products. Structures name is not mandatory but recommended;
- Contacts from the responsible person and address to the delivery of the order;
- Company name and address to be present in the invoice and your VAT number with indication of the country code (Ex: PT000000000, DE000000000).



TheraProteins Scope

TheraProteins is the leading supplier of oligosaccharide reference standards for the Quality Release Testing of recombinant pharmaceutical glycoproteins and for glycobiology research.

TheraProteins offers the world's largest number of N-glycans for use in:

- Quality Control-testing of recombinant glycoprotein pharmaceuticals
- In production process optimization / product quality optimization
- In lot-to-lot consistency/stability studies of drug substance and drug product
- In the developmental phase or final stage of biotechnological processes.
- Market release or glycoprotein pharmaceuticals

We deliver 10, 20 or 100 µg quantities of highest purity (>90%) individual N-linked oligosaccharides suitable for cGMP compliant testing of pharmaceutical glycoproteins via glycan mapping procedures (HPAEC-PAD, mass spectrometry, labeling procedures etc).

Up to 10 mg quantities of many of our oligosaccharide structures are available upon request.

TheraProteins also supplies oligosaccharide libraries, e.g., for recombinant antibody glycosylation mapping (> 30 different glycan structures found in recombinant antibodies from CHO cells), cell lines and serum proteins. TheraProteins also offers custom preparation of quantified glycan structure mixtures/libraries (quantified by a cGMP-certified laboratory according to a validated SOP used for GMP compliant release assays).

Our N-glycan structures are isolated from recombinant cell lines (CHO, BHK and HEK cells) or culture supernatants thereof. A combined approach using specific glycosidases and glycosyltransferases is used for preparations of some of the structures.

Purity is checked by HPAEC-PAD procedures and by ESI-MS or MALDI/TOF-MS and structural identity is confirmed by NMR analysis and/or MS-MS of the basic structures.

Apart from the N-glycans listed in the catalogue, TheraProteins offers also custom preparation of oligosaccharide structures for clients from the pharmaceutical industry and for research laboratories.



Services

Oligosaccharide libraries from recombinant cell lines and from primary cells

Oligosaccharide Libraries for recombinant therapeutics (cytokines, glycoprotein hormones, antibody-fusion proteins) have been supplied to our customers from the biotechnology industry for their drug substance and drug product quality release tests and lot-to-lot consistency monitoring via oligosaccharide profiling/mapping procedures.

TheraProteins offers also cell glycosylation analysis and can provide custom service to prepare reference oligosaccharides from recombinant cell lines (CHO cells, BHK cells, HEK cells, others upon request)

In the area of cell therapy our company can provide service technologies for screening of correct cell glycosylation during in-vivo expansion/culturing of cells enabling the monitoring of any changes of cell surface glycosylation. This test is a sensitive measure of quality and reproducibility of cell culture.

Custom services

TheraProteins custom services include contract manufacturing of sialylated or neutral oligosaccharide libraries/panels with structurally defined individual glycans of outstanding quality and precise quantification. In case a required structure is not contained in the catalogue, TheraProteins is in many cases capable of providing those oligosaccharides by applying enzymatic methods involving glycosyltransferase / glycosidase reactions along with core structures from our N-glycan collection.

- Synthesis of oligosaccharides
- Preparation of defined glycopeptides

Due to more than 15 years of experience of its staff members and contract laboratories, TheraProteins can offer custom services for preparation of defined complex-type N-glycans. TheraProteins also offers glycopeptides with defined N-glycan decoration (5- 20 aa peptide length) from recombinant sources.

Other services

- N-linked oligosaccharides with a *NeuAc α 2 \rightarrow 8NeuAc α 2 \rightarrow 3Gal motif*
- Sulphated complex-type N-glycans
- Reduced forms of N-glycans
- IEF
- SDS-PAGE / Western Blotting
- SEC
- IEC
- RP-HPLC
- Sialic acid determination (NeuAc; NeuGc)
- O-acetylation of sialic acids
- HPAEC-PAD mapping of oligosaccharides
- Method development for N-glycan mapping



Catalogue

Complex N-linked oligosaccharides

Most of our N-linked oligosaccharides are isolated from proteins from cell culture supernatants of CHO cells or BHK cells. The structures have core α 1-6 fucose and α 2-3 -linked NeuAc and are available *with* and *without* N-acetylglucosamine repeats. They are destined to be used as reference standards in quality control release tests of pharmaceutical glycoproteins by glycosylation mapping procedures (HPAEC-PAD, mass spectrometry and others). The underlying fully sialylated structures are analysed by NMR, ESI-MS and MALDI/TOF-MS and are quantified by using two validated HPAEC-PAD methods.

Tetraantennary Structures

Tetra-antennary complex type with proximal fucose

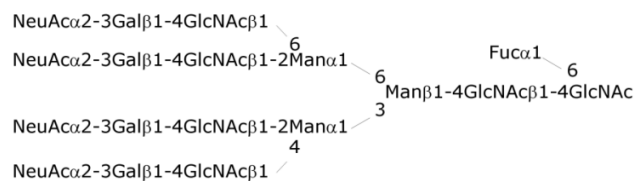
Name: Tetrasialylated tetraantennary plus proximal α 1 \rightarrow 6 Fucose

Catalogue Number: GTP 4N(2,3)-4A+F

Price (€)

10 μ g = 225

20 μ g = 360



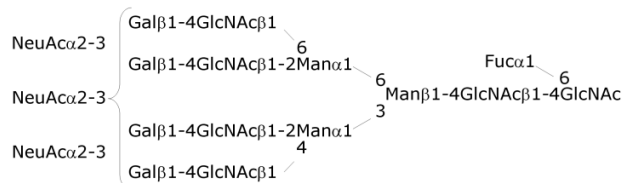
Name: Trisialylated tetraantennary plus proximal α 1 \rightarrow 6 Fucose

Catalogue Number: GTP 3N(2,3)-4A+F

Price (€)

10 μ g = 230

20 μ g = 370



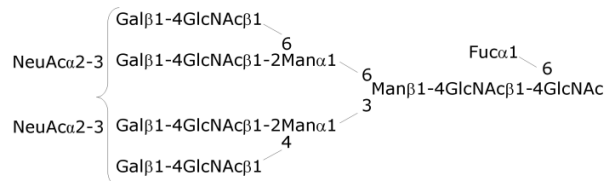
Name: Disialylated tetraantennary plus proximal α 1 \rightarrow 6 Fucose

Catalogue Number: GTP 2N(2,3)-4A+F

Price (€)

10 μ g = 230

20 μ g = 370



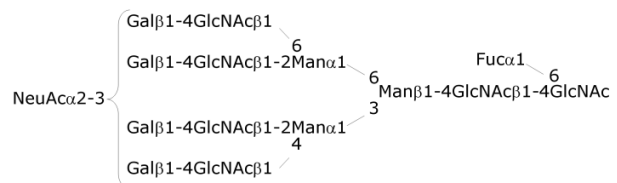
Name: Monosialylated tetraantennary plus proximal α 1 \rightarrow 6 Fucose

Catalogue Number: GTP 1N(2,3)-4A+F

Price (€)

10 μ g = 240

20 μ g = 380





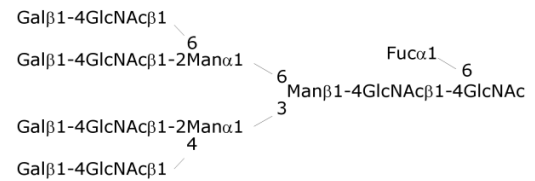
Name: Asialo tetraantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 0N-4A+F

Price (€)

10 μ g = 225

20 μ g = 360



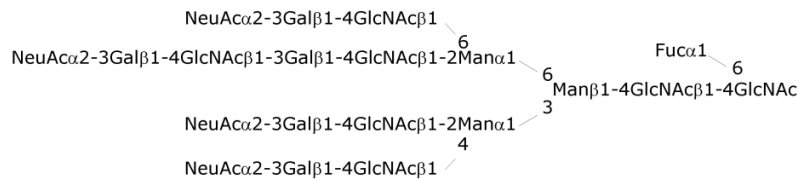
Name: Tetrasialylated tetraantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose with 1 LacNAc Repeat

Catalogue Number: GTP 4N(2,3)-4A+1R+F

Price (€)

10 μ g = 225

20 μ g = 360



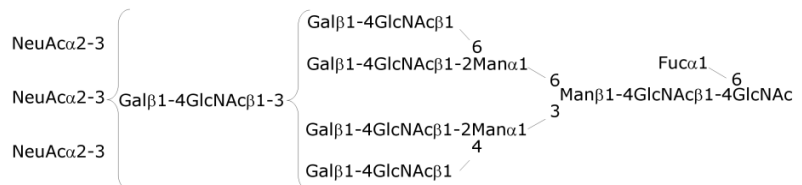
Name: Trisialylated tetraantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose with 1 LacNAc Repeat

Catalogue Number: GTP 3N(2,3)-4A+1R+F

Price (€)

10 μ g = 230

20 μ g = 370



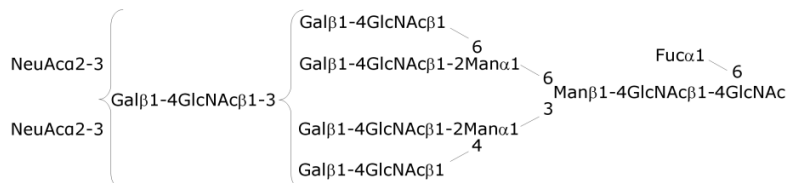
Name: Disialylated tetraantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose with 1 LacNAc Repeat

Catalogue Number: GTP 2N(2,3)-4A+1R+F

Price (€)

10 μ g = 230

20 μ g = 370



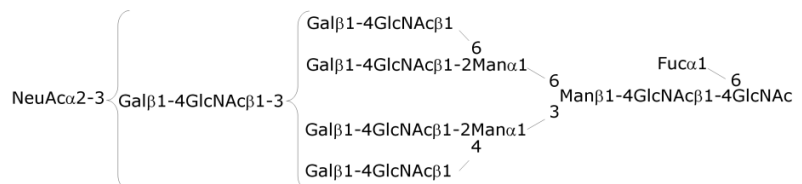
Name: Monosialylated tetraantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose with 1 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-4A+1R+F

Price (€)

10 μ g = 240

20 μ g = 380



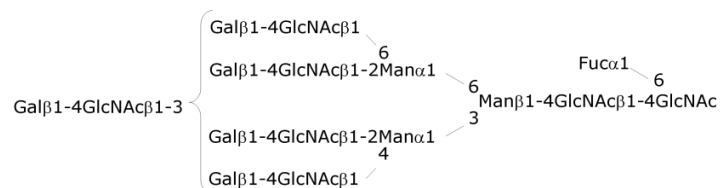
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Catalogue Number: GTP 0N-4A+1R+F

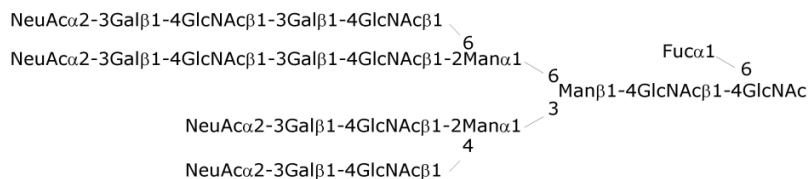
Price (€)

10 μ g = 225

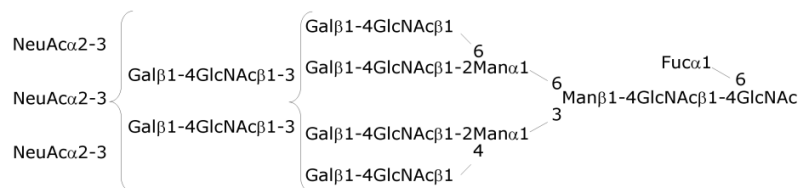
20 μ g = 360



Name: Tetrasialylated tetraantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

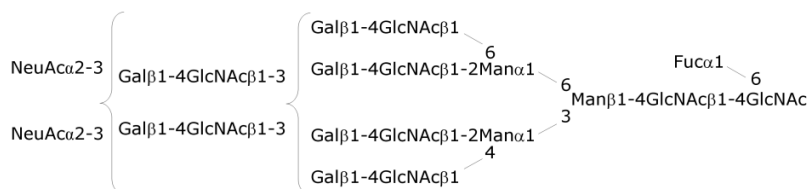
Price (€)

Name: Trisialylated tetraantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

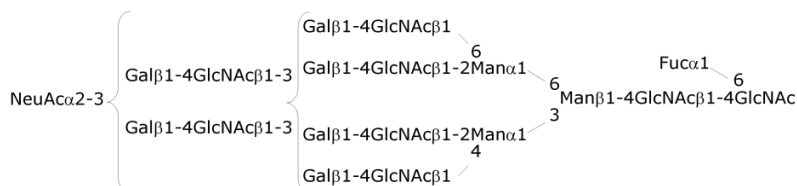
Price (€)

Name: Disialylated tetraantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

Price (€)

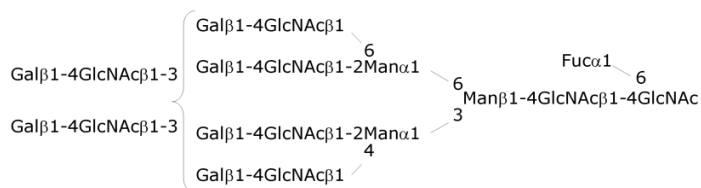


Name: Monosialylated tetraantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

Price (€)

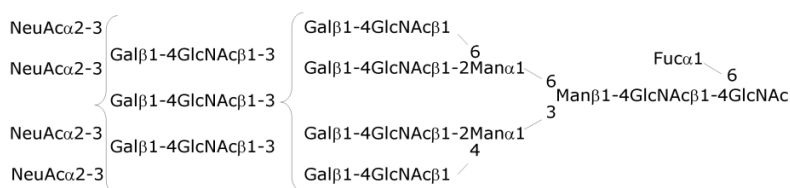
Name: Asialo tetraantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

Price (€)



Name: Tetrasialylated tetraantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose with 3 LacNAc Repeat

Price (€)



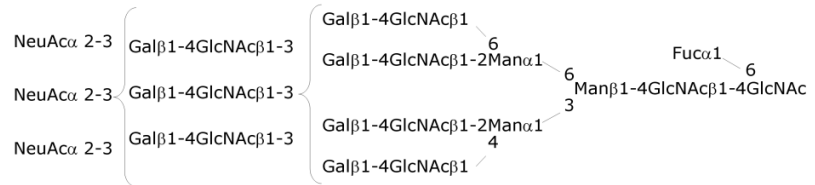


Name: Trisialylated tetraantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose with 3 LacNAc Repeat

Catalogue Number: GTP 3N(2,3)-4A+3R+F

Price (€)

10 μ g = Upon
Request



Name: Disialylated tetraantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose with 3 LacNAc Repeat

Catalogue Number: GTP 2N(2,3)-4A+3R+F

Price (€)

10 μ g = Upon
Request

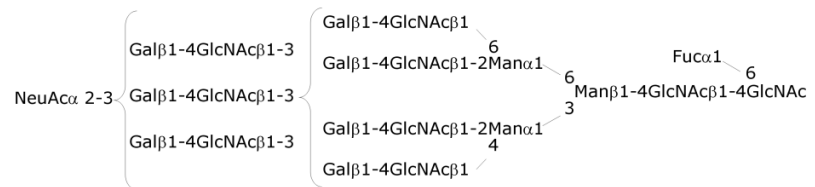


Name: Monosialylated tetraantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose with 3 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-4A+3R+F

Price (€)

10 μ g = Upon
Request

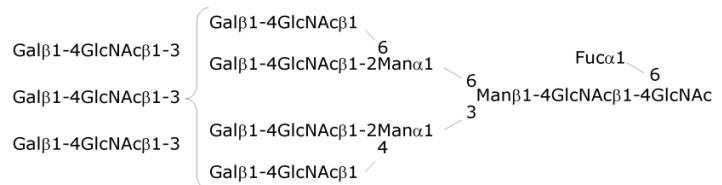


Name: Asialo tetraantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose with 3 LacNAc Repeat

Catalogue Number: GTP 0N-4A+3R+F

Price (€)

10 μ g = Upon
Request



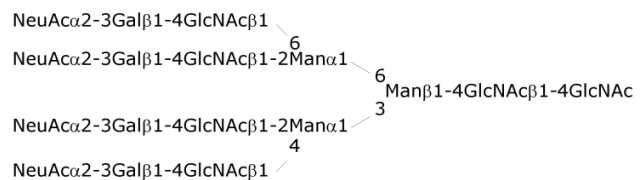
Tetra-antennary complex type without proximal fucose

Name: Tetrasialylated tetraantennary

Catalogue Number: GTP 4N(2,3)-4A

Price (€)

10 μ g = 280
20 μ g = 400





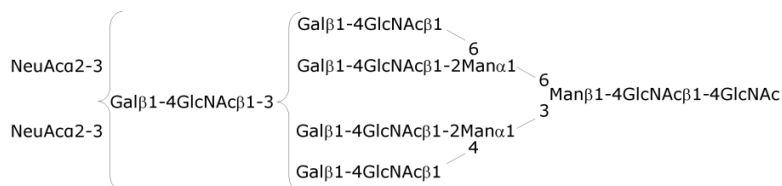
Name: Disialylated tetraantennary with 1 LacNAc Repeat

Catalogue Number: GTP 2N(2,3)-4A+1R

Price (€)

10µg = 320

20µg = 455



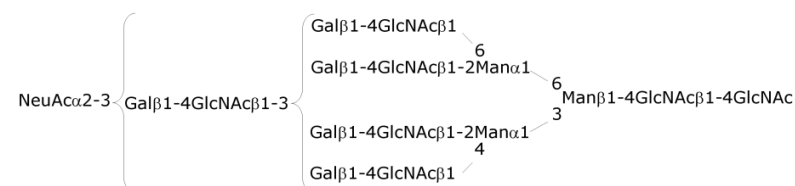
Name: Monosialylated tetraantennary with 1 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-4A+1R

Price (€)

10µg = 320

20µg = 455



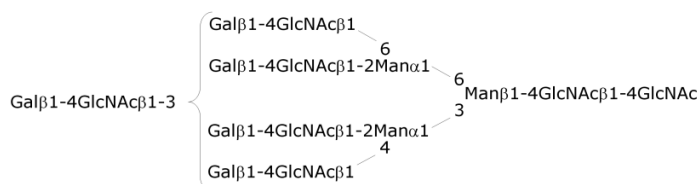
Name: Asialo tetraantennary with 1 LacNAc Repeat

Catalogue Number: GTP 0N-4A+1R

Price (€)

10µg = 280

20µg = 395

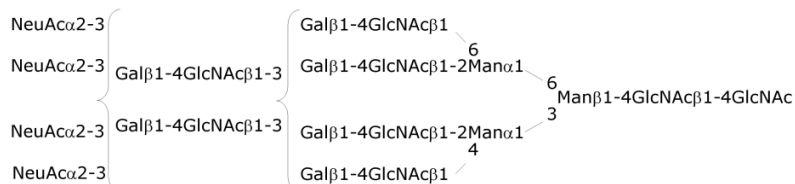


Name: Tetrasialylated tetraantennary with 2 LacNAc Repeat

Catalogue Number: GTP 4N(2,3)-4A+2R

Price (€)

10µg = 450

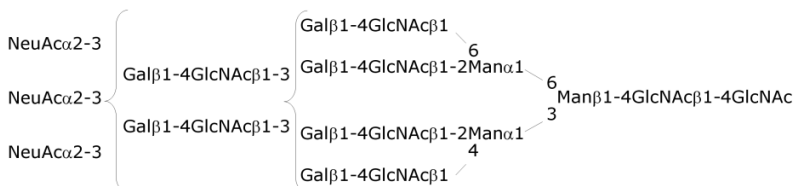


Name: Trisialylated tetraantennary with 2 LacNAc Repeat

Catalogue Number: GTP 3N(2,3)-4A+2R

Price (€)

10µg = 450

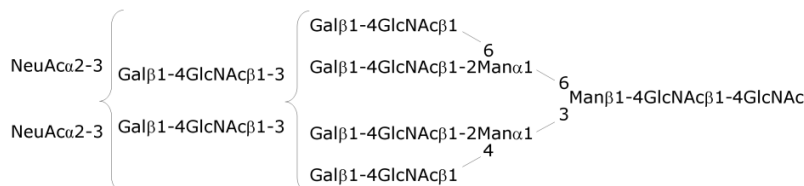


Name: Disialylated tetraantennary with 2 LacNAc Repeat

Catalogue Number: GTP 2N(2,3)-4A+2R

Price (€)

10µg = 475



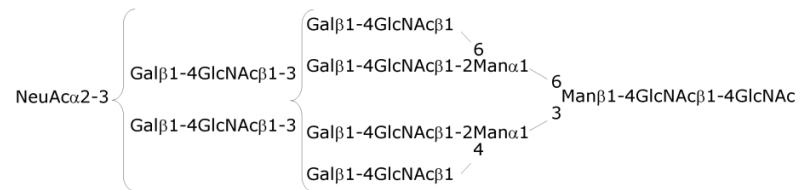


Name: Monosialylated tetraantennary with 2 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-4A+2R

Price (€)

10µg = 475

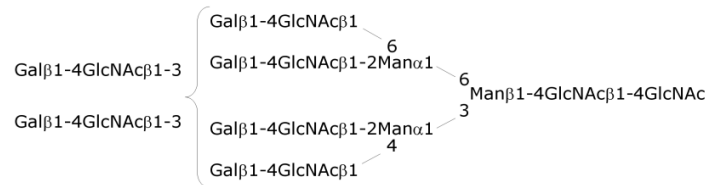


Name: Asialo tetraantennary with 2 LacNAc Repeat

Catalogue Number: GTP 0N-4A+2R

Price (€)

20µg = 395

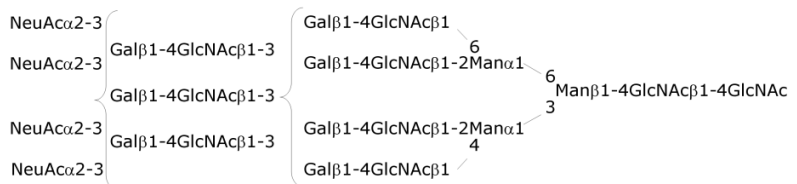


Name: Tetrasialylated tetraantennary with 3 LacNAc Repeat

Catalogue Number: GTP 4N(2,3)-4A+3R

Price (€)

10µg = Upon
request

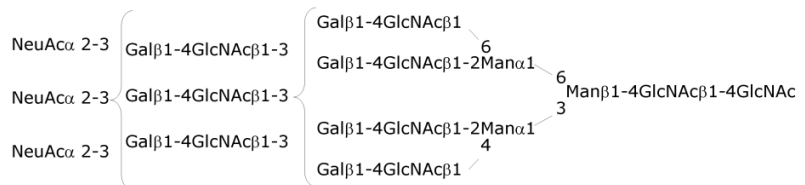


Name: Trisialylated tetraantennary with 3 LacNAc Repeat

Catalogue Number: GTP 3N(2,3)-4A+3R

Price (€)

10µg = Upon
request

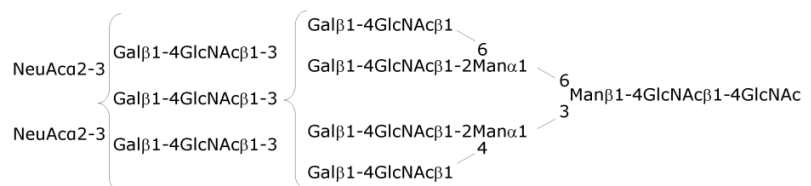


Name: Disialylated tetraantennary with 3 LacNAc Repeat

Catalogue Number: GTP 2N(2,3)-4A+3R

Price (€)

10µg = Upon
request

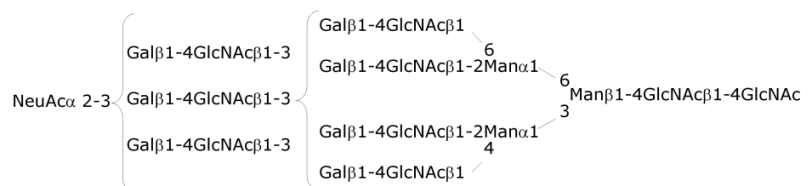


Name: Monosialylated tetraantennary with 3 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-4A+3R

Price (€)

10µg = Upon
request



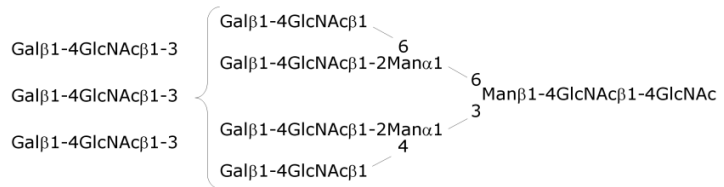


Name: Asialo tetraantennary with 3 LacNAc Repeat

Catalogue Number: GTP 0N-4A+3R

Price (€)

10µg = Upon
request



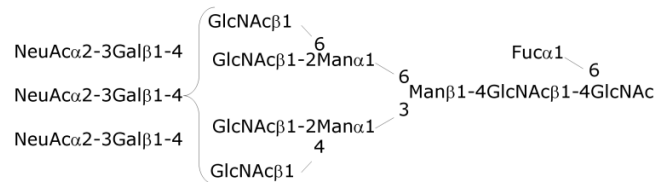
Tetra-antennary complex type truncated structures with proximal fucose

Name: Trisialylated tetraantennary minus 1 Gal plus proximal α1→6Fucose

Catalogue Number: GTP 3N(2,3)-4A-1G+F

Price (€)

10µg = 390

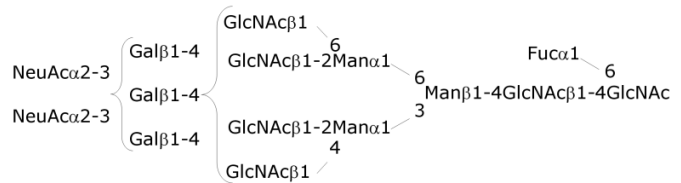


Name: Disialylated tetraantennary minus 1 Gal plus proximal α1→6Fucose

Catalogue Number: GTP 2N(2,3)-4A-1G+F

Price (€)

10µg = Upon
request

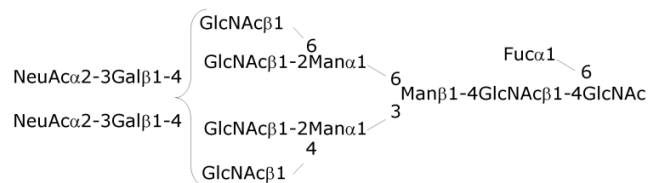


Name: Disialylated tetraantennary minus 2 Gal plus proximal α1→6Fucose

Catalogue Number: GTP 2N(2,3)-4A-2G+F

Price (€)

10µg = 390

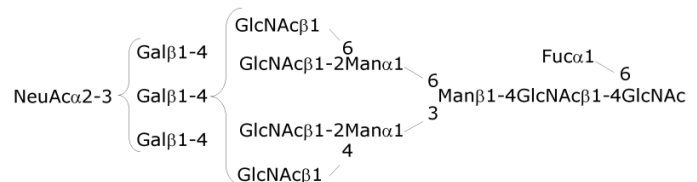


Name: Monosialylated tetraantennary minus 1 Gal plus proximal α1→6Fucose

Catalogue Number: GTP 1N(2,3)-4A-1G+F

Price (€)

10µg = Upon
request



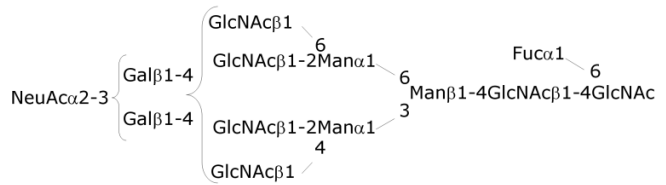


Name: Monosialylated tetraantennary minus 2 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 1N(2,3)-4A-2G+F

Price (€)

10 μ g = Upon
request

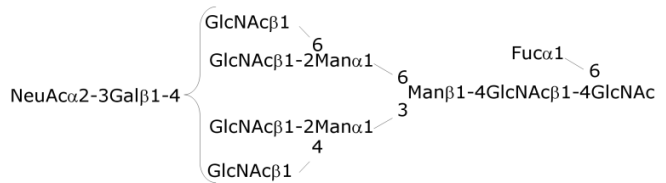


Name: Monosialylated tetraantennary minus 3 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 1N(2,3)-4A-3G+F

Price (€)

10 μ g = 440

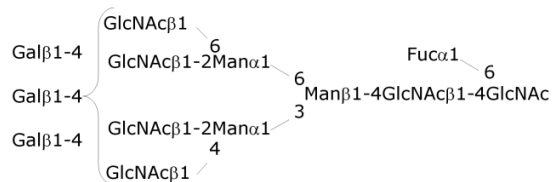


Name: Asialo tetraantennary minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 0N-4A-1G+F

Price (€)

10 μ g = 440

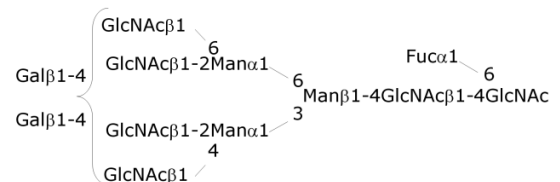


Name: Asialo tetraantennary minus 2 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 0N-4A-2G+F

Price (€)

10 μ g = 440

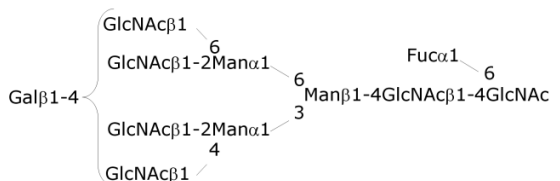


Name: Asialo tetraantennary minus 3 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 0N-4A-3G+F

Price (€)

10 μ g = 440

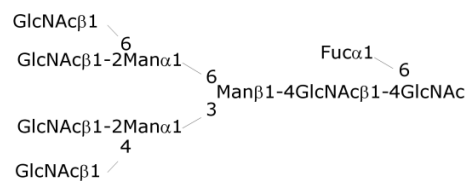


Name: Asialo tetraantennary minus 4 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 0N-4A-4G+F

Price (€)

10 μ g = 320



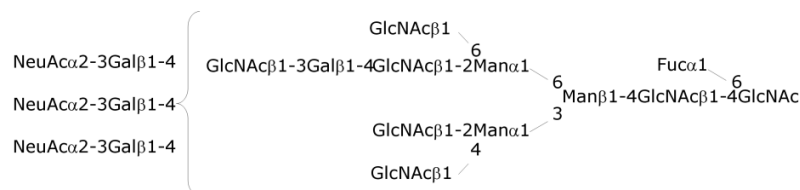


Name: Trisialylated tetraantennary minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 1 LacNAc Repeat

Catalogue Number: GTP 3N(2,3)-4A+1R-1G+F

Price (€)

10 μ g = 400

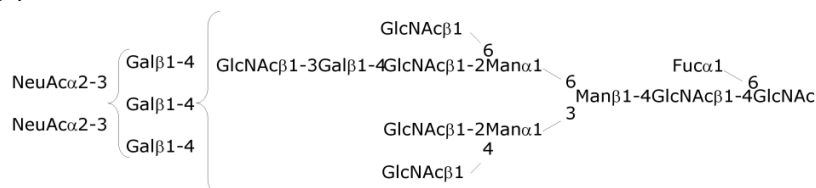


Name: Disialylated tetraantennary minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 1 LacNAc Repeat

Catalogue Number: GTP 2N(2,3)-4A+1R-1G+F

Price (€)

10 μ g = Upon
request



Name: Disialylated tetraantennary minus 2 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 1 LacNAc Repeat

Catalogue Number: GTP 2N(2,3)-4A+1R-2G+F

Price (€)

10 μ g = 420

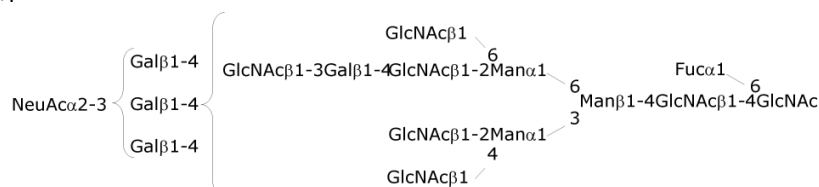


Name: Monosialylated tetraantennary minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 1 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-4A+1R-1G+F

Price (€)

10 μ g = Upon
request

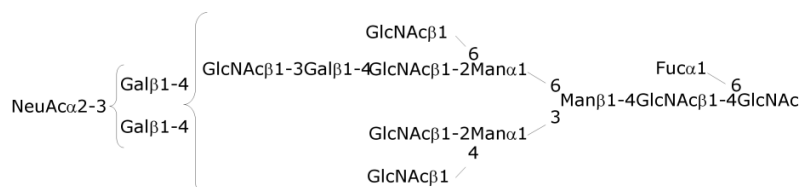


Name: Monosialylated tetraantennary minus 2 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 1 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-4A+1R-2G+F

Price (€)

10 μ g = Upon
request

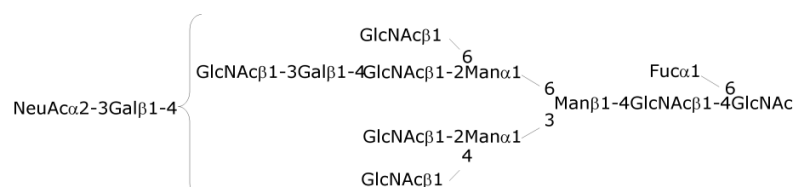


Name: Monosialylated tetraantennary minus 3 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 1 LacNAc Repeat

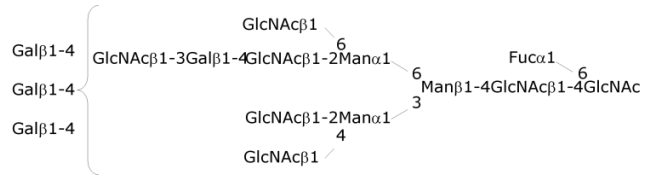
Catalogue Number: GTP 1N(2,3)-4A+1R-3G+F

Price (€)

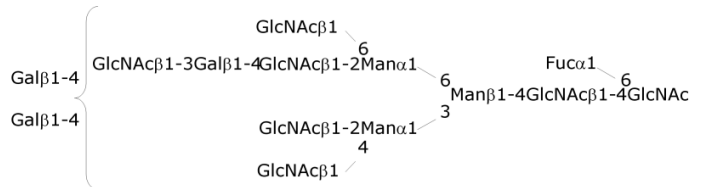
10 μ g = 440



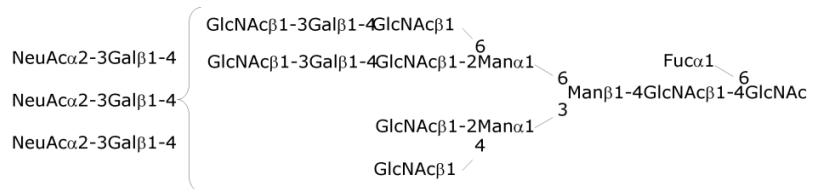
Name: Asialo tetraantennary minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 1 LacNAc Repeat

Price (€)

Name: Asialo tetraantennary minus 2 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 1 LacNAc Repeat

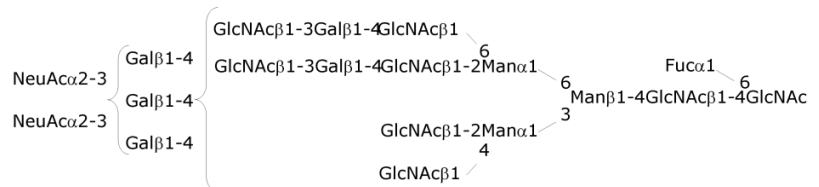
Price (€)

Name: Trisialylated tetraantennary minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

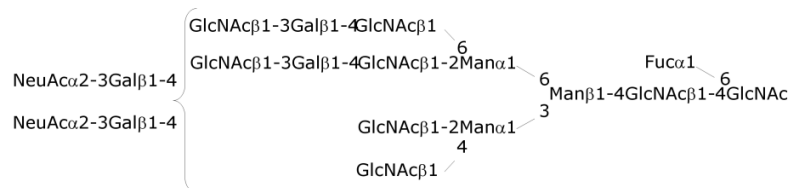
Price (€)

Name: Disialylated tetraantennary minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

Price (€)

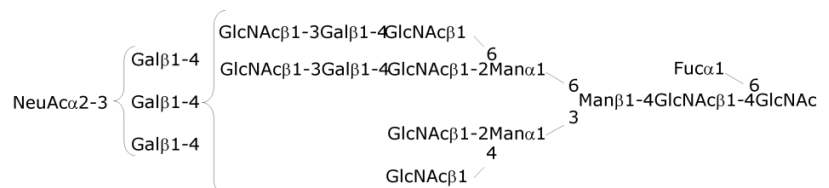


Name: Disialylated tetraantennary minus 2 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

Price (€)

Name: Monosialylated tetraantennary minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

Price (€)





Name: Monosialylated tetraantennary minus 2 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-4A+2R-2G+F

Price (€)

10 μ g = Upon
request

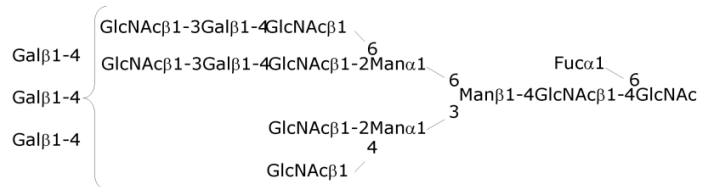


Name: Asialo tetraantennary minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

Catalogue Number: GTP 0N-4A+2R-1G+F

Price (€)

10 μ g = Upon
request

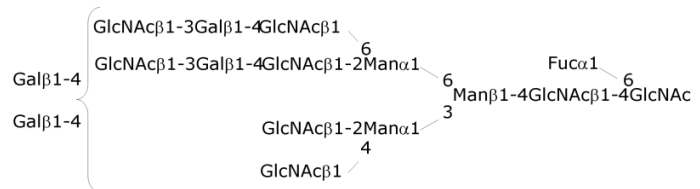


Name: Asialo tetraantennary minus 2 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

Catalogue Number: GTP 0N-4A+2R-2G+F

Price (€)

10 μ g = 450



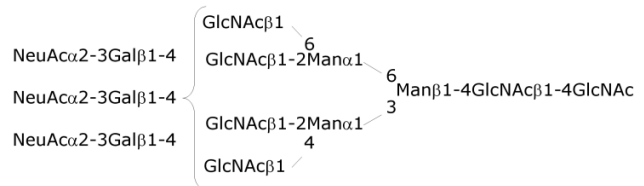
Tetra-antennary complex type truncated structures without proximal fucose

Name: Trisialylated tetraantennary minus 1 Gal

Catalogue Number: GTP 3N(2,3)-4A-1G

Price (€)

10 μ g = 380

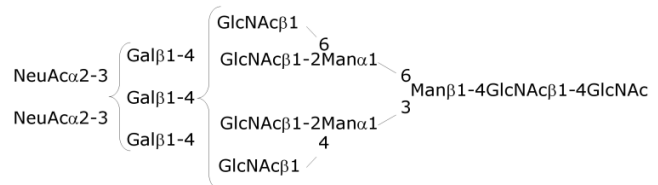


Name: Disialylated tetraantennary minus 1 Gal

Catalogue Number: GTP 2N(2,3)-4A-1G

Price (€)

10 μ g = Upon
request



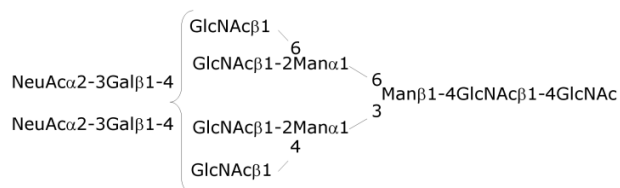


Name: Disialylated tetraantennary minus 2 Gal

Catalogue Number: GTP 2N(2,3)-4A-2G

Price (€)

10µg = 400

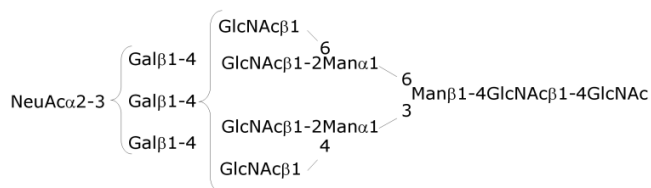


Name: Monosialylated tetraantennary minus 1 Gal

Catalogue Number: GTP 1N(2,3)-4A-1G

Price (€)

10µg = 400

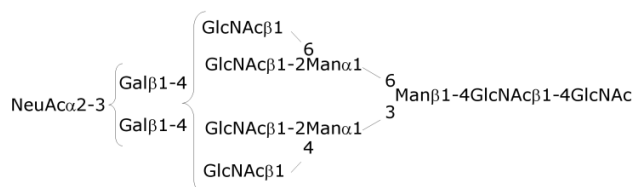


Name: Monosialylated tetraantennary minus 2 Gal

Catalogue Number: GTP 1N(2,3)-4A-2G

Price (€)

10µg = Upon
request

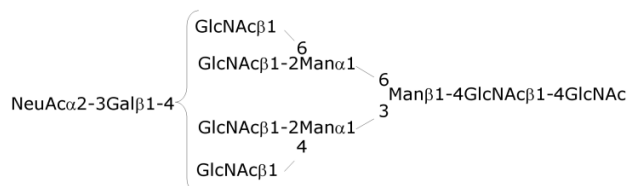


Name: Monosialylated tetraantennary minus 3 Gal

Catalogue Number: GTP 1N(2,3)-4A-3G

Price (€)

10µg = Upon
request

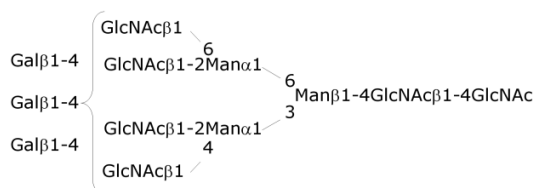


Name: Asialo tetraantennary minus 1 Gal

Catalogue Number: GTP 0N-4A-1G

Price (€)

10µg = 400

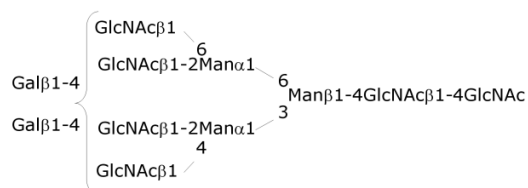


Name: Asialo tetraantennary minus 2 Gal

Catalogue Number: GTP 0N-4A-2G

Price (€)

10µg = 380



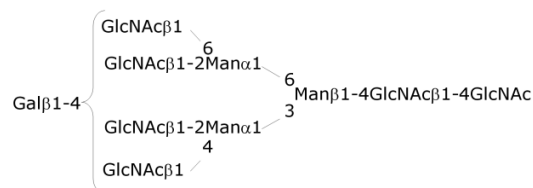


Name: Asialo tetraantennary minus 3 Gal

Catalogue Number: GTP 0N-4A-3G

Price (€)

10µg = 380

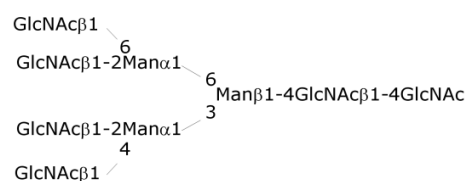


Name: Asialo tetraantennary minus 4 Gal

Catalogue Number: GTP 0N-4A-4G

Price (€)

10µg = 300

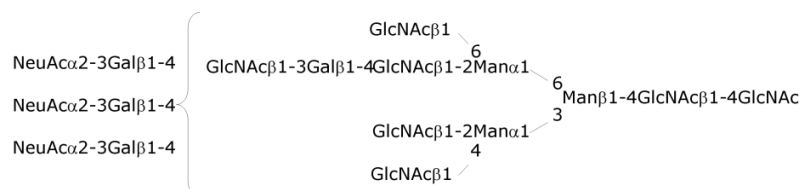


Name: Trisialylated tetraantennary minus 1 Gal with 1 LacNAc Repeat

Catalogue Number: GTP 3N(2,3)-4A+1R-1G

Price (€)

10µg = 390

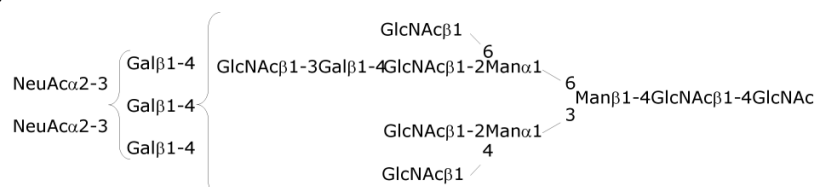


Name: Disialylated tetraantennary minus 1 Gal with 1 LacNAc Repeat

Catalogue Number: GTP 2N(2,3)-4A+1R-1G

Price (€)

10µg = Upon
request

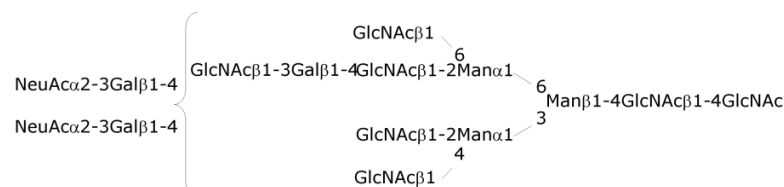


Name: Disialylated tetraantennary minus 2 Gal with 1 LacNAc Repeat

Catalogue Number: GTP 2N(2,3)-4A+1R-2G

Price (€)

10µg = 400

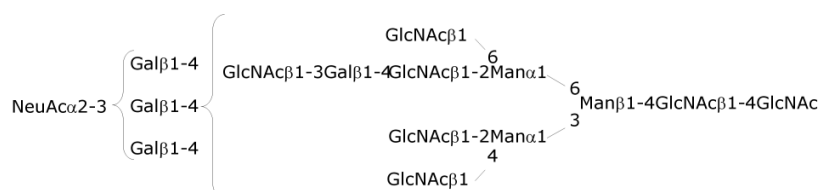


Name: Monosialylated tetraantennary minus 1 Gal with 1 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-4A+1R-1G

Price (€)

10µg = Upon
request



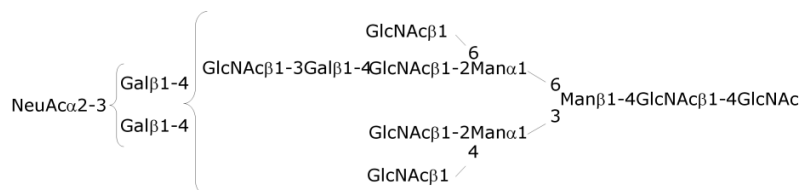


Name: Monosialylated tetraantennary minus 2 Gal with 1 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-4A+1R-2G

Price (€)

10µg = Upon
request

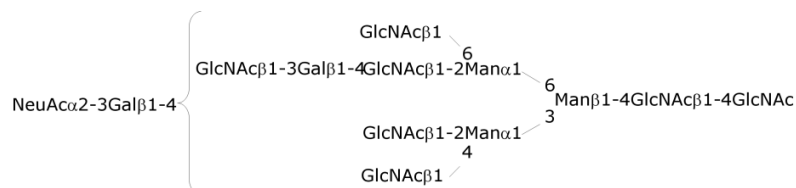


Name: Monosialylated tetraantennary minus 3 Gal with 1 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-4A+1R-3G

Price (€)

10µg = 400

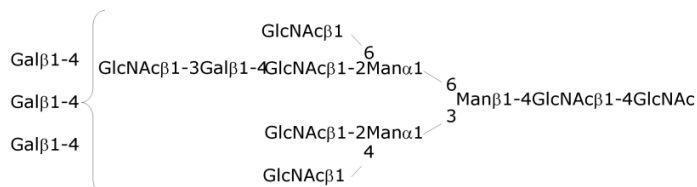


Name: Asialo tetraantennary minus 1 Gal 1 LacNAc Repeat

Catalogue Number: GTP 0N-4A+1R-1G

Price (€)

10µg = 380

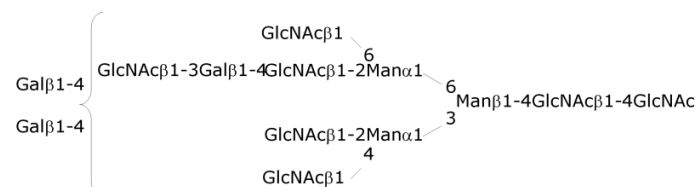


Name: Asialo tetraantennary minus 2 Gal 1 LacNAc Repeat

Catalogue Number: GTP 0N-4A+1R-2G

Price (€)

10µg = 380

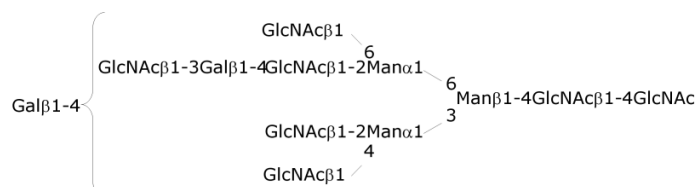


Name: Asialo tetraantennary minus 3 Gal 1 LacNAc Repeat

Catalogue Number: GTP 0N-4A+1R-3G

Price (€)

10µg = 380

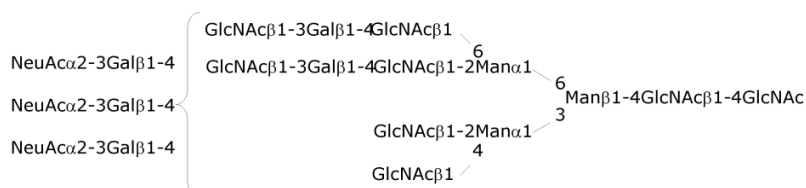


Name: Trisialylated tetraantennary minus 1 Gal with 2 LacNAc Repeat

Catalogue Number: GTP 3N(2,3)-4A+2R-1G

Price (€)

10µg = 360



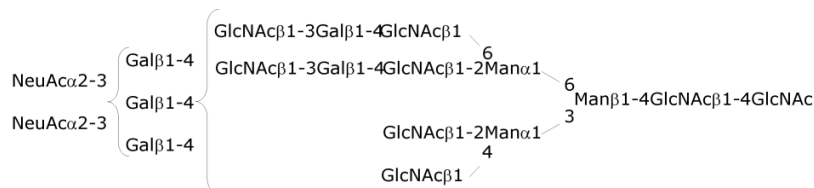


Name: Disialylated tetraantennary minus 1 Gal with 2 LacNAc Repeat

Catalogue Number: GTP 2N(2,3)-4A+2R-1G

Price (€)

10µg = Upon
request

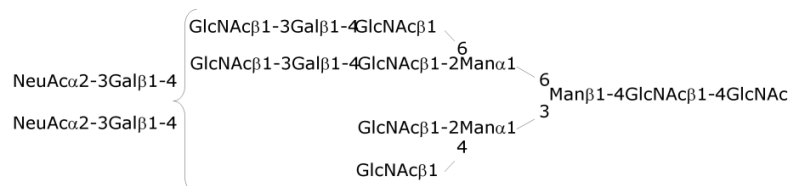


Name: Disialylated tetraantennary minus 2 Gal with 2 LacNAc Repeat

Catalogue Number: GTP 2N(2,3)-4A+2R-2G

Price (€)

10µg = 390

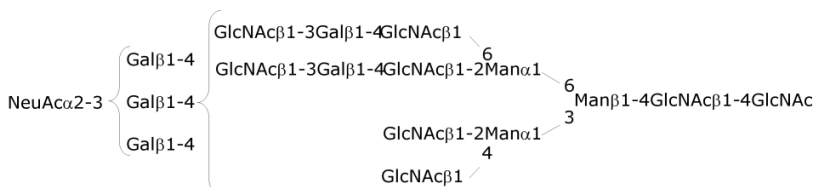


Name: Monosialylated tetraantennary minus 1 Gal with 2 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-4A+2R-1G

Price (€)

10µg = Upon
request

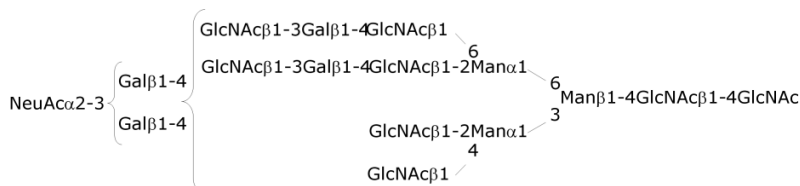


Name: Monosialylated tetraantennary minus 2 Gal with 2 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-4A+2R-2G

Price (€)

10µg = Upon
request

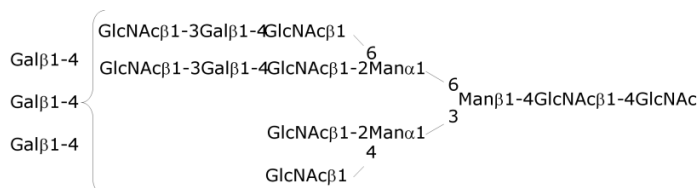


Name: Asialo tetraantennary minus 1 Gal with 2 LacNAc Repeat

Catalogue Number: GTP 0N-4A+2R-1G

Price (€)

10µg = 380

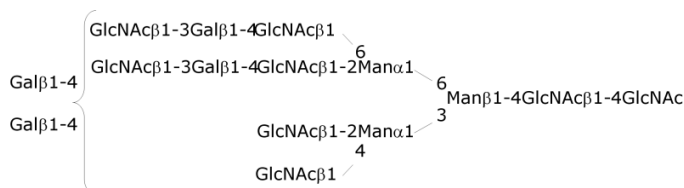


Name: Asialo tetraantennary minus 2 Gal with 2 LacNAc Repeat

Catalogue Number: GTP 0N-4A+2R-2G

Price (€)

10µg = 380





Triantennary Structures

Triantennary complex type with proximal fucose

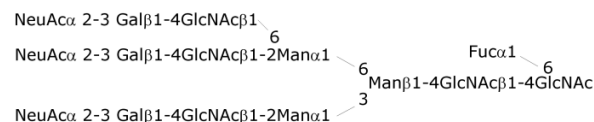
Name: Trisialylated triantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 3N(2,3)-3A(2,6)+F

Price (€)

10 μ g = 230

20 μ g = 350



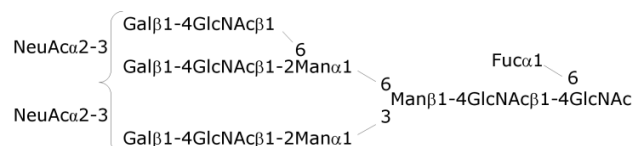
Name: Disialylated triantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 2N(2,3)-3A(2,6)+F

Price (€)

10 μ g = 235

20 μ g = 360



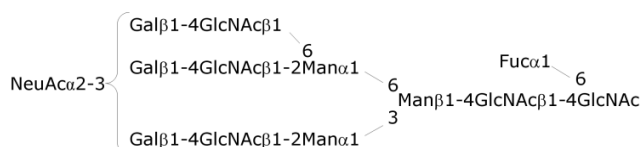
Name: Monosialylated triantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 1N(2,3)-3A(2,6)+F

Price (€)

10 μ g = 245

20 μ g = 370



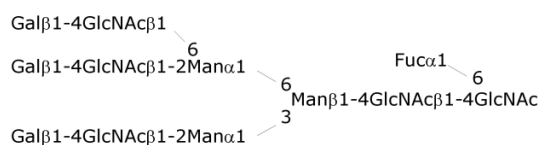
Name: Asialo triantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 0N-3A(2,6)+F

Price (€)

10 μ g = 210

20 μ g = 320

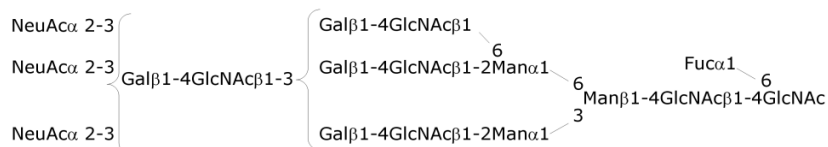


Name: Trisialylated triantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose with 1 LacNAc Repeat

Catalogue Number: GTP 3N(2,3)-3A(2,6)+1R+F

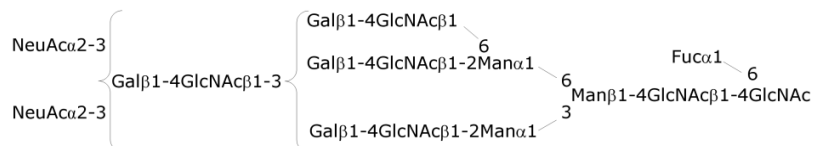
Price (€)

10 μ g = 350



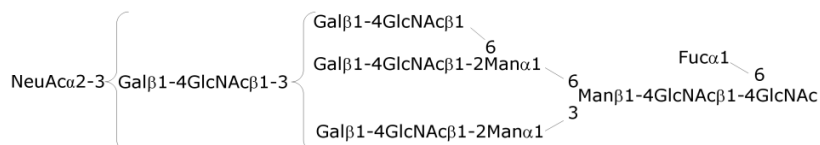
Name: Disialylated triantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose with 1 LacNAc Repeat

Price (€)



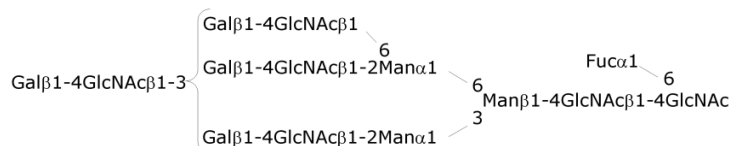
Name: Monosialylated triantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose with 1 LacNAc Repeat

Price (€)



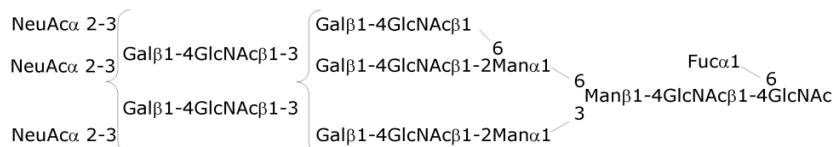
Name: Asialo triantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose with 1 LacNAc Repeat

Price (€)



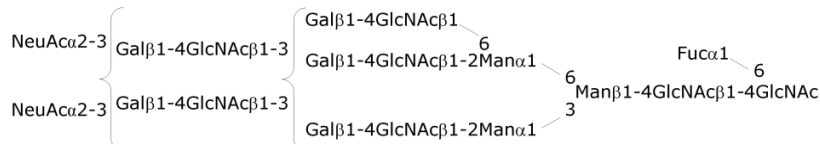
Name: Trisialylated triantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

Price (€)



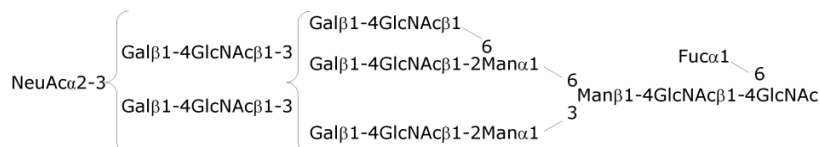
Name: Disialylated triantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

Price (€)



Name: Monosialylated triantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

Price (€)





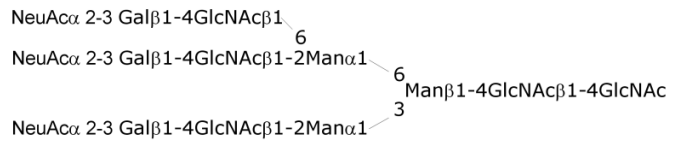
Triantennary complex type without proximal fucose

Name: Trisialylated triantennary

Catalogue Number: GTP 3N(2,3)-3A(2,6)

Price (€)

10µg = Upon
request

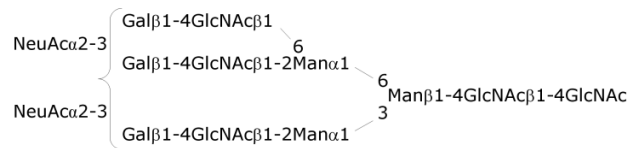


Name: Disialylated triantennary

Catalogue Number: GTP 2N(2,3)-3A(2,6)

Price (€)

10µg = Upon
request

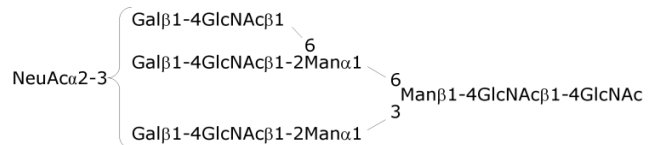


Name: Monosialylated triantennary

Catalogue Number: GTP 1N(2,3)-3A(2,6)

Price (€)

10µg = Upon
request

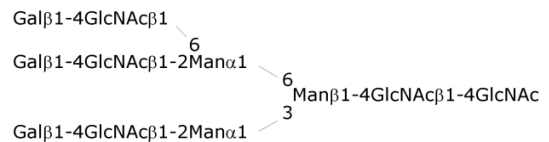


Name: Asialo triantennary

Catalogue Number: GTP 0N-3A(2,6)

Price (€)

10µg = Upon
request

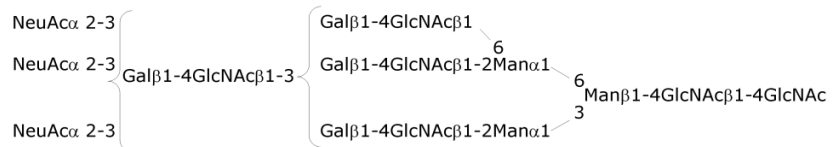


Name: Trisialylated triantennary with 1 LacNAc Repeat

Catalogue Number: GTP 3N(2,3)-3A(2,6)+1R

Price (€)

10µg = Upon
request

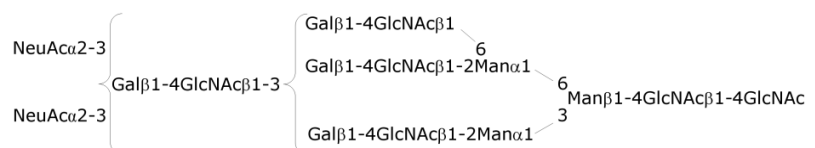


Name: Disialylated triantennary with 1 LacNAc Repeat

Catalogue Number: GTP 2N(2,3)-3A(2,6)+1R

Price (€)

10µg = Upon
request



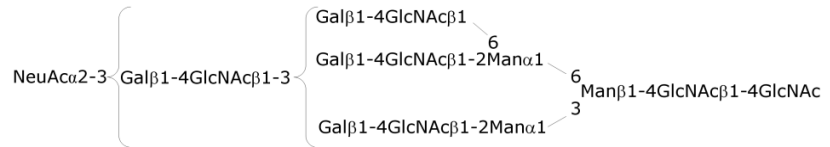


Name: Monosialylated triantennary with 1 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-3A(2,6)+1R

Price (€)

10µg = Upon
request

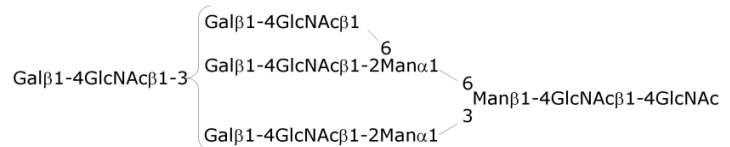


Name: Asialo triantennary with 1 LacNAc Repeat

Catalogue Number: GTP 0N-3A(2,6)+1R

Price (€)

10µg = Upon
request

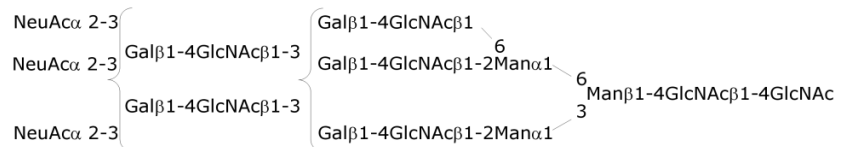


Name: Trisialylated triantennary with 2 LacNAc Repeat

Catalogue Number: GTP 3N(2,3)-3A(2,6)+2R

Price (€)

10µg = Upon
request

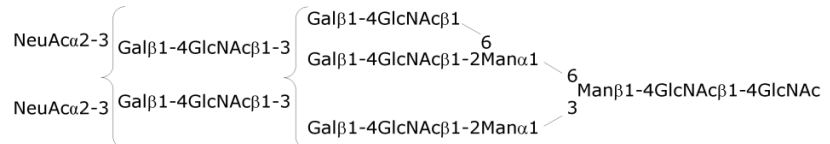


Name: Disialylated triantennary with 2 LacNAc Repeat

Catalogue Number: GTP 2N(2,3)-3A(2,6)+2R

Price (€)

10µg = Upon
request

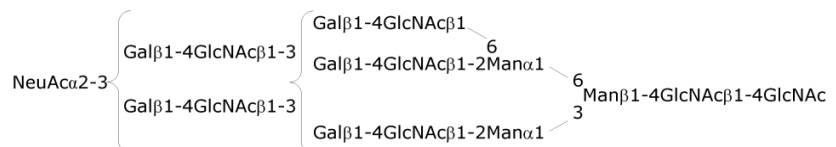


Name: Monosialylated triantennary with 2 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-3A(2,6)+2R

Price (€)

10µg = Upon
request

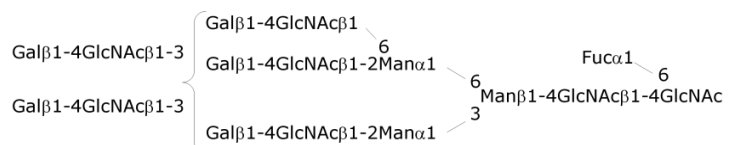


Name: Asialo triantennary with 2 LacNAc Repeat

Catalogue Number: GTP 0N-3A(2,6)+2R

Price (€)

10µg = Upon
request





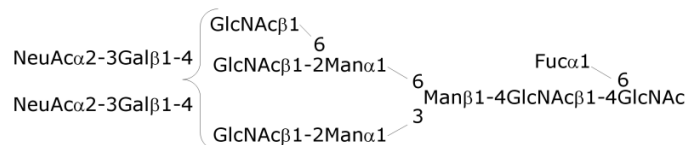
Tri-antennary complex type 2-6 branched truncated structures with proximal Fucose

Name: Disialylated triantennary minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 2N(2,3)-3A(2,6)-1G+F

Price (€)

10 μ g = Upon
request

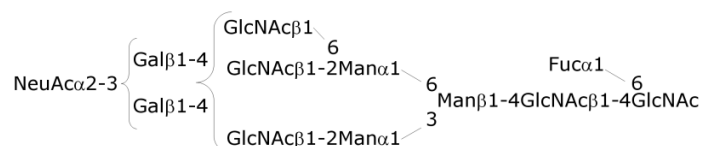


Name: Monosialylated triantennary minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 1N(2,3)-3A(2,6)-1G+F

Price (€)

10 μ g = Upon
request

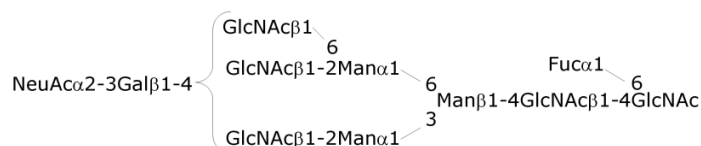


Name: Monosialylated triantennary minus 2 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 1N(2,3)-3A(2,6)-2G+F

Price (€)

10 μ g = Upon
request

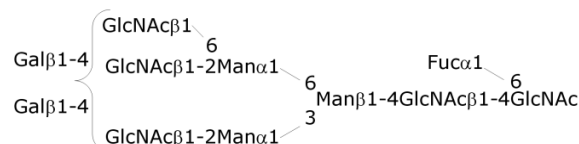


Name: Asialo triantennary minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 0N-3A(2,6)-1G+F

Price (€)

10 μ g = Upon
request

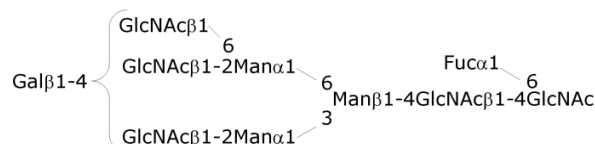


Name: Asialo triantennary minus 2 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 0N-3A(2,6)-2G+F

Price (€)

10 μ g = Upon
request

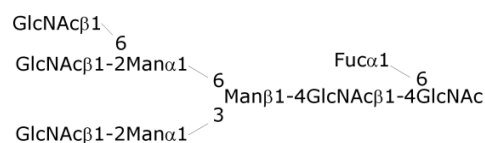


Name: Asialo triantennary agalacto Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 0N-3A(2,6)-3G+F

Price (€)

10 μ g = Upon
request



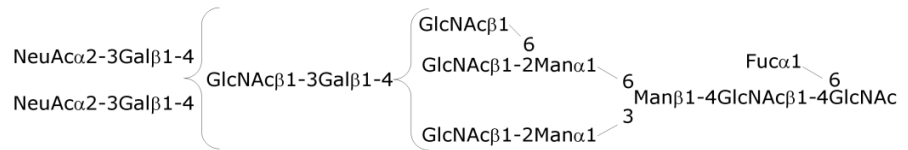


Name: Disialylated triantennary minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 1 LacNAc Repeat

Catalogue Number: GTP 2N(2,3)-3A(2,6)+1R-1G+F

Price (€)

10 μ g = Upon request

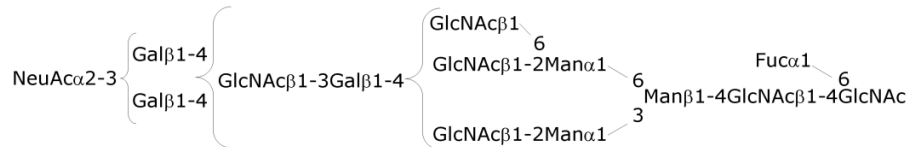


Name: Monosialylated triantennary minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 1 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-3A(2,6)+1R-1G+F

Price (€)

10 μ g = Upon request



Name: Monosialylated triantennary minus 2 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 1 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-3A(2,6)+1R-2G+F

Price (€)

10 μ g = Upon request

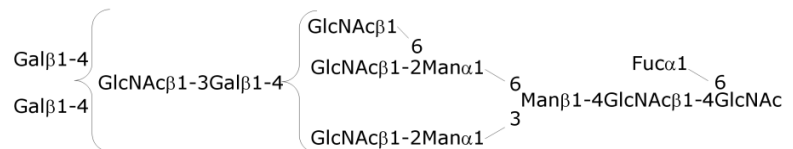


Name: Asialo triantennary minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 1 LacNAc Repeat

Catalogue Number: GTP 0N-3A(2,6)+1R-1G+F

Price (€)

10 μ g = Upon request

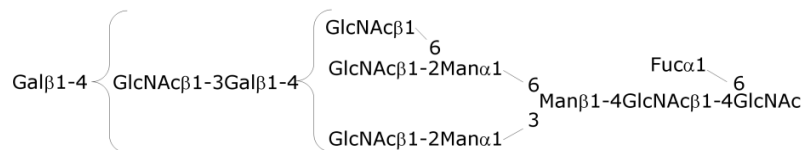


Name: Asialo triantennary minus 2 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 1 LacNAc Repeat

Catalogue Number: GTP 0N-3A(2,6)+1R-2G+F

Price (€)

10 μ g = Upon request

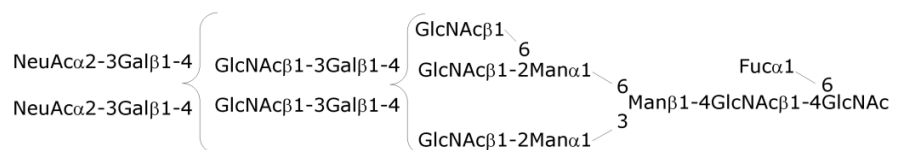


Name: Disialylated triantennary minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

Catalogue Number: GTP 2N(2,3)-3A(2,6)+2R-1G+F

Price (€)

10 μ g = Upon request



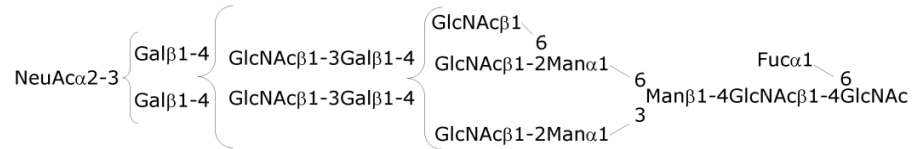


Name: Monosialylated triantennary minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-3A(2,6)+2R-1G+F

Price (€)

10 μ g = Upon request

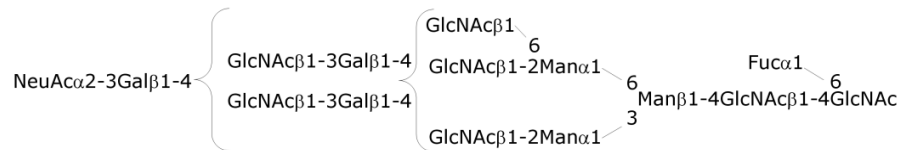


Name: Monosialylated triantennary minus 2 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-3A(2,6)+2R-2G+F

Price (€)

10 μ g = Upon request

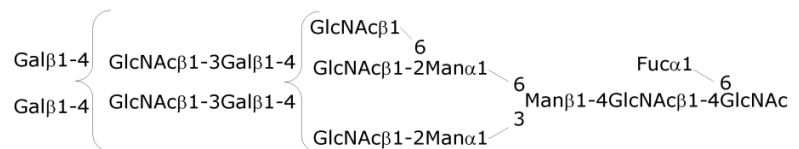


Name: Asialo triantennary minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

Catalogue Number: GTP 0N-3A(2,6)+2R-1G+F

Price (€)

10 μ g = Upon request

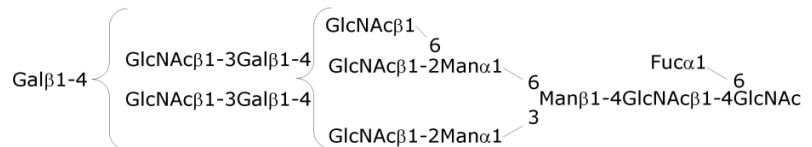


Name: Asialo triantennary minus 2 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

Catalogue Number: GTP 0N-3A(2,6)+2R-2G+F

Price (€)

10 μ g = Upon request

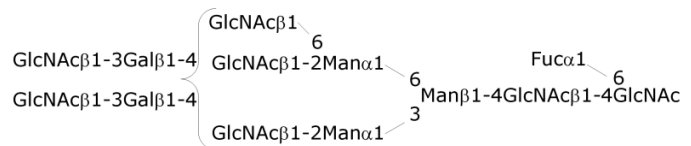


Name: Asialo triantennary agalacto plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

Catalogue Number: GTP 0N-3A(2,6)+2R-3G+F

Price (€)

10 μ g = Upon request





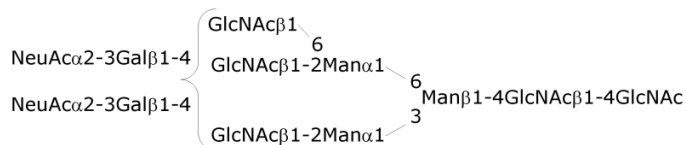
Tri-antennary complex type 2-6 branched truncated structures without proximal Fucose

Name: Disialylated triantennary minus 1 Gal

Catalogue Number: GTP 2N(2,3)-3A(2,6)-1G

Price (€)

10µg = Upon
request

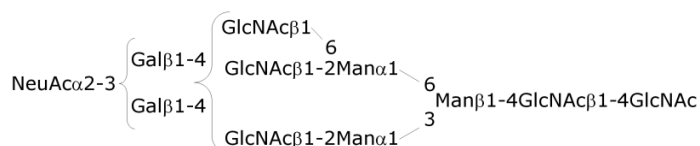


Name: Monosialylated triantennary minus 1 Gal

Catalogue Number: GTP 1N(2,3)-3A(2,6)-1G

Price (€)

10µg = Upon
request

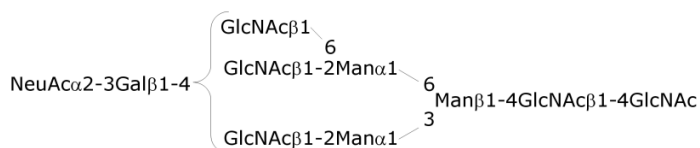


Name: Monosialylated triantennary minus 2 Gal

Catalogue Number: GTP 1N(2,3)-3A(2,6)-2G

Price (€)

10µg = Upon
request

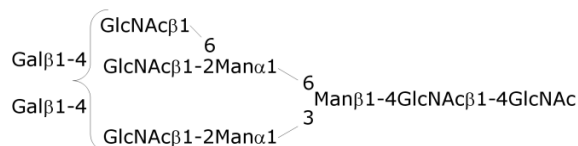


Name: Asialo triantennary minus 1 Gal

Catalogue Number: GTP 0N-3A(2,6)-1G

Price (€)

10µg = Upon
request

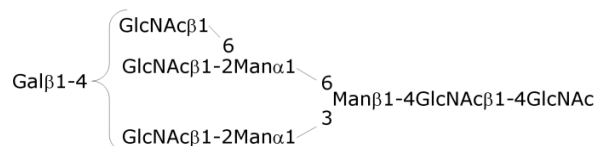


Name: Asialo triantennary minus 2 Gal

Catalogue Number: GTP 0N-3A(2,6)-2G

Price (€)

10µg = Upon
request

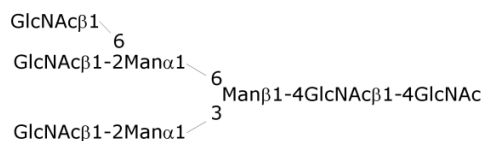


Name: Asialo triantennary agalacto

Catalogue Number: GTP 0N-3A(2,6)-3G

Price (€)

10µg = Upon
request



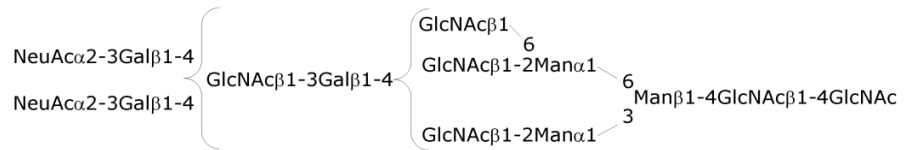


Name: Disialylated triantennary minus 1 Gal with 1 LacNAc Repeat

Catalogue Number: GTP 2N(2,3)-3A(2,6)+1R-1G

Price (€)

10µg = Upon
request

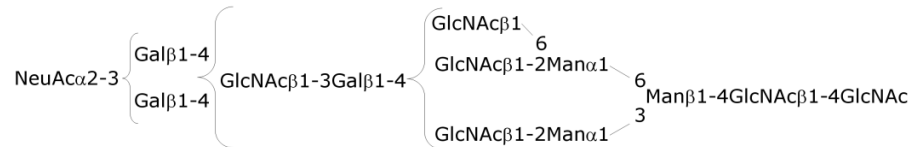


Name: Monosialylated triantennary minus 1 Gal with 1 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-3A(2,6)+1R-1G

Price (€)

10µg = Upon
request



Name: Monosialylated triantennary minus 2 Gal with 1 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-3A(2,6)+1R-2G

Price (€)

10µg = Upon
request

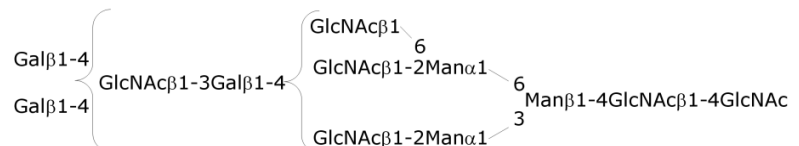


Name: Asialo triantennary minus 1 Gal with 1 LacNAc Repeat

Catalogue Number: GTP 0N-3A(2,6)+1R-1G

Price (€)

10µg = Upon
request

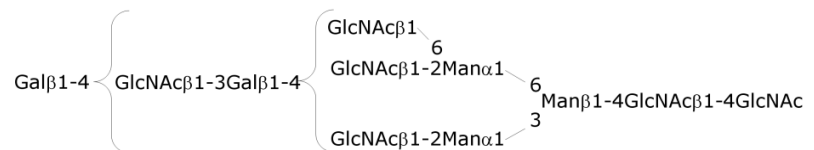


Name: Asialo triantennary minus 2 Gal with 1 LacNAc Repeat

Catalogue Number: GTP 0N-3A(2,6)+1R-2G

Price (€)

10µg = Upon
request

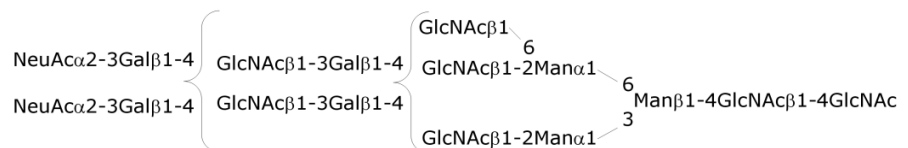


Name: Disialylated triantennary minus 1 Gal with 2 LacNAc Repeat

Catalogue Number: GTP 2N(2,3)-3A(2,6)+2R-1G

Price (€)

10µg = Upon
request



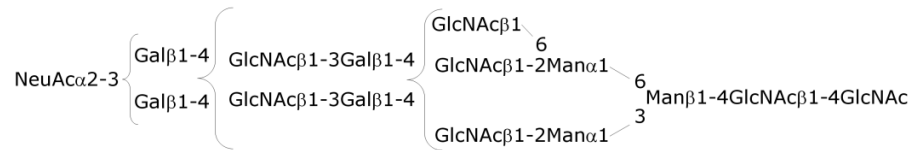


Name: Monosialylated triantennary minus 1 Gal with 2 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-3A(2,6)+2R-1G

Price (€)

10µg = Upon request

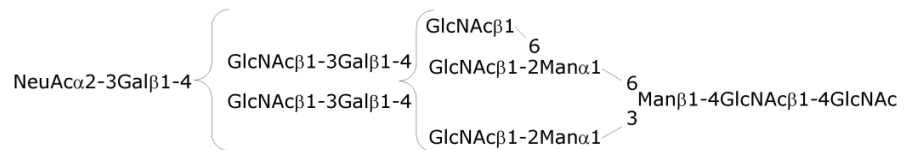


Name: Monosialylated triantennary minus 2 Gal with 2 LacNAc Repeat

Catalogue Number: GTP 1N(2,3)-3A(2,6)+2R-2G

Price (€)

10µg = Upon request

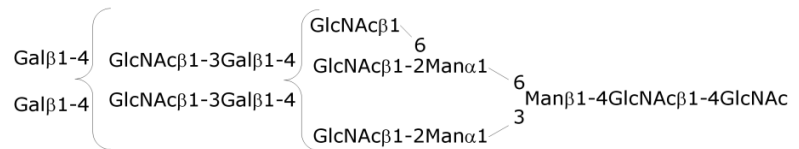


Name: Asialo triantennary minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose with 2 LacNAc Repeat

Catalogue Number: GTP 0N-3A(2,6)+2R-1G

Price (€)

10µg = Upon request



Diantennary Structures

Diantennary N-glycans are present in many recombinant glycoprotein therapeutics and those from Chinese hamster ovary cells have exclusively $\alpha 2 \rightarrow 3$ linked NeuAc. TheraProteins also offers more than 35 N-glycan structures that are related to these glycans (truncated forms e.g. lacking Gal, Fuc, Gal1-4GlcNAc, monoantennary structures etc, and also glycans with different peripheral substitutions that are frequently encountered in recombinant products from CHO cells

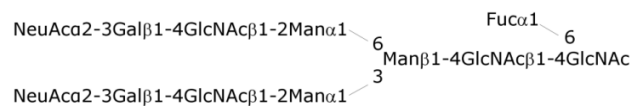
Di-antennary complex type NeuAc 2 \rightarrow 3 linked, complete and truncated structures

Name: Disialylated diantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 2N(2,3)-2A+F

Price (€)

20µg = 285

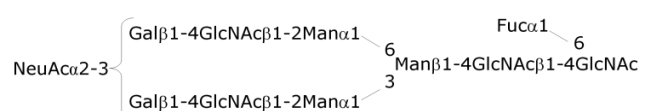


Name: Monosialylated diantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 1N(2,3)-2A+F

Price (€)

20µg = 285



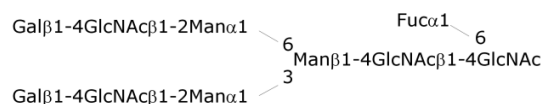


Name: Asialo diantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 0N-2A+F

Price (€)

20 μ g = 255

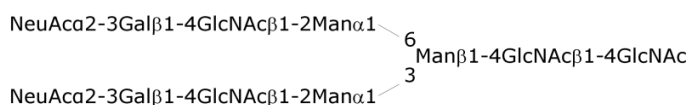


Name: Disialylated diantennary

Catalogue Number: GTP 2N(2,3)-2A

Price (€)

20 μ g = 290

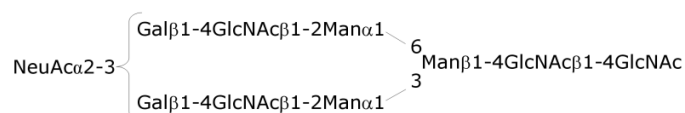


Name: Monosialylated diantennary

Catalogue Number: GTP 1N(2,3)-2A

Price (€)

20 μ g = 290

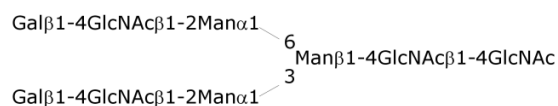


Name: Asialo diantennary

Catalogue Number: GTP 0N-2A

Price (€)

20 μ g = 205

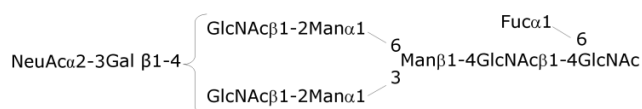


Name: Monosialylated (2-3 linked) Diantennary Minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 1N(2,3)-2A-1G+F

Price (€)

20 μ g = 320

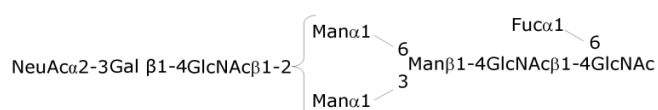


Name: Monosialylated (2-3 linked) Diantennary Minus 1 Gal minus 1 GlcNAc plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 1N(2,3)-2A-1G-GN+F

Price (€)

20 μ g = 340



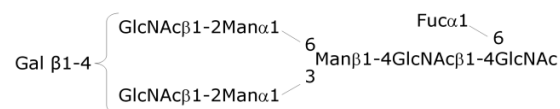


Name: Asialo Diantennary Minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 0N-2A-1G+F

Price (€)

20 μ g = 310

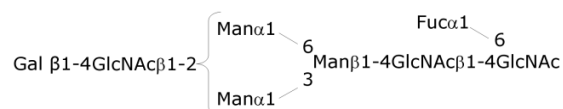


Name: Asialo diantennary minus 1 Gal minus 1 GlcNAc plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 0N-2A-1G-GN+F

Price (€)

20 μ g = 340

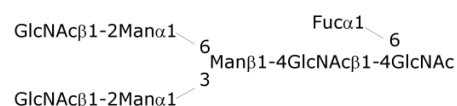


Name: Asialo diantennary agalacto plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 0N-2A-2G+F

Price (€)

20 μ g = 320

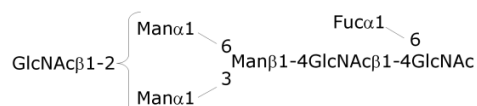


Name: Asialo diantennary agalacto without 1 GlcNAc plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 0N-2A-2G-1GN+F

Price (€)

20 μ g = 300

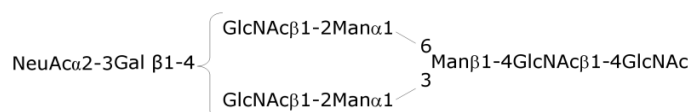


Name: Monosialylated (2-3 linked) Diantennary Minus 1 Gal

Catalogue Number: GTP 1N(2,3)-2A-1G

Price (€)

20 μ g = 340



Name: Monosialylated (2-3 linked) Diantennary Minus 1 Gal minus 1 GlcNAc

Catalogue Number: GTP 1N(2,3)-2A-1G-GN

Price (€)

20 μ g = 360



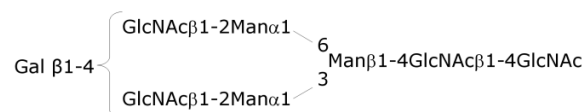


Name: Asialo Diantennary Minus 1 Gal

Catalogue Number: GTP 0N-2A-1G

Price (€)

20µg = 240

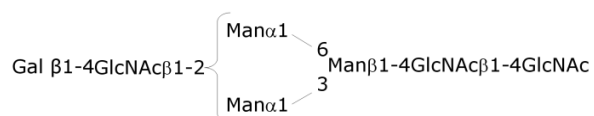


Name: Asialo diantennary minus 1 Gal minus 1 GlcNAc

Catalogue Number: GTP 0N-2A-1G-1GN

Price (€)

20µg = 245

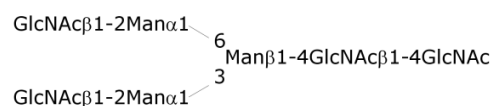


Name: Asialo diantennary agalacto

Catalogue Number: GTP 0N-2A-2G

Price (€)

20µg = 240

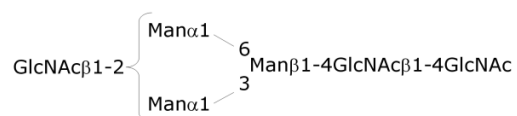


Name: Asialo diantennary agalacto without 1 GlcNAc

Catalogue Number: GTP 0N-2A-2G-1GN

Price (€)

20µg = 245



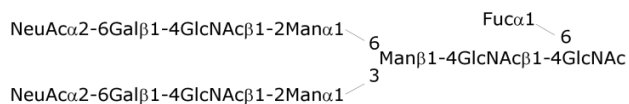
Di-antennary complex type NeuAc 2→6 linked, complete and truncated structures

Name: Disialylated diantennary plus proximal α1→6Fucose

Catalogue Number: GTP 2N(2,6)-2A+F

Price (€)

20µg = 250



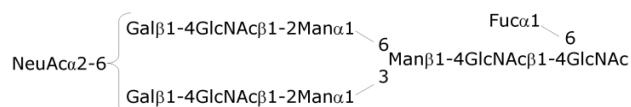


Name: Monosialylated diantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 1N(2,6)-2A+F

Price (€)

20 μ g = 250

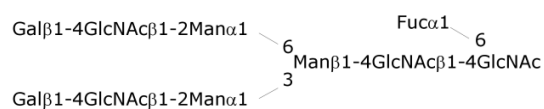


Name: Asialo diantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 0N-2A+F

Price (€)

20 μ g = 255

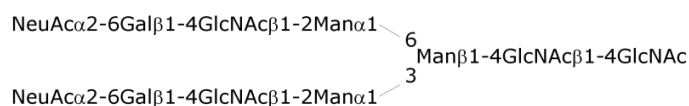


Name: Disialylated diantennary

Catalogue Number: GTP 2N(2,6)-2A

Price (€)

20 μ g = 240

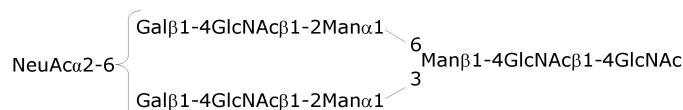


Name: Monosialylated diantennary

Catalogue Number: GTP 1N(2,6)-2A

Price (€)

20 μ g = 240

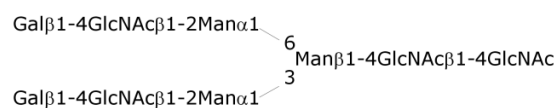


Name: Asialo diantennary

Catalogue Number: GTP 0N-2A

Price (€)

20 μ g = 205

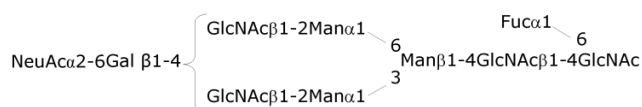


Name: Monosialylated (2-6 linked) Diantennary Minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 1N(2,6)-2A-1G+F

Price (€)

20 μ g = 290



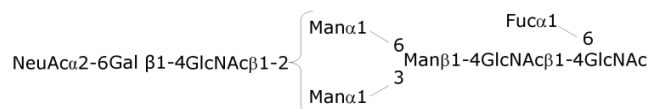


Name: Monosialylated (2-6 linked) Diantennary Minus 1 Gal minus 1 GlcNAc plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 1N(2,6)-2A-1G-GN+F

Price (€)

20 μ g = 310

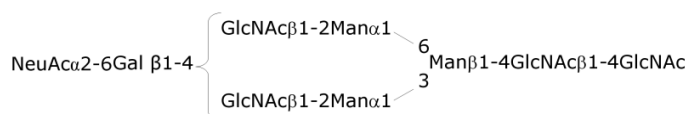


Name: Monosialylated (2-6 linked) Diantennary Minus 1 Gal

Catalogue Number: GTP 1N(2,6)-2A-1G

Price (€)

20 μ g = 295

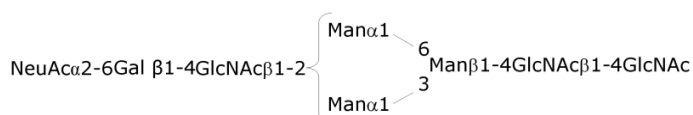


Name: Monosialylated (2-6 linked) Diantennary Minus 1 Gal minus 1 GlcNAc

Catalogue Number: GTP 1N(2,6)-2A-1G-GN

Price (€)

20 μ g = 320



Phosphorylated complex type

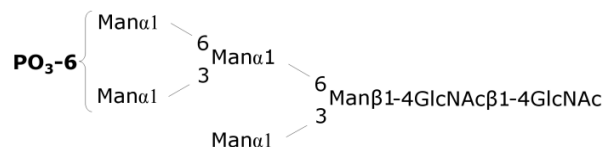
Phosphorylated oligomannosidic or hybrid-type oligosaccharides present in recombinant therapeutic glycoproteins (**CHO**, **BHK** and **HEK** cells) may target the drug to undesired cells or tissues when applied in patients. In order to avoid these risks, cells culture supernatant as well as drug substance should be controlled for the absence of these types of oligosaccharides. TheraProteins is worldwide the only company that offers a panel of these type of structures valuable in N-glycosylation mapping analysis of biopharmaceutical proteins at any stage of development.

Name: Phosphorylated oligmannosidic (Man5GlcNAc2)

Catalogue Number: GTP Man5-6P

Price (€)

10 μ g = 420

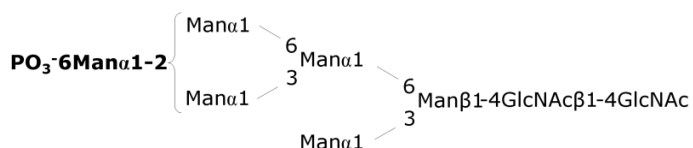


Name: Phosphorylated oligmannosidic (Man6GlcNAc2)

Catalogue Number: GTP Man6-6P

Price (€)

10 μ g = 495



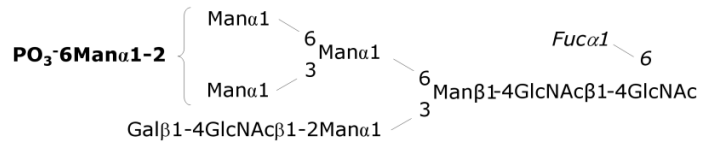


Name: Phosphorylated Hybrid type Galb1-4GlcNAc(Man6GlcNAc2) plus proximal α 1 \rightarrow 6 Fucose

Catalogue Number: GTP ON Man6Lac-6P+F

Price (€)

10 μ g = 620

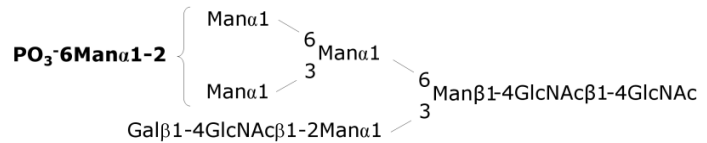


Name: Phosphorylated Hybrid type Galb1-4GlcNAc(Man6GlcNAc2)

Catalogue Number: GTP ON Man6Lac-6P

Price (€)

10 μ g = 640

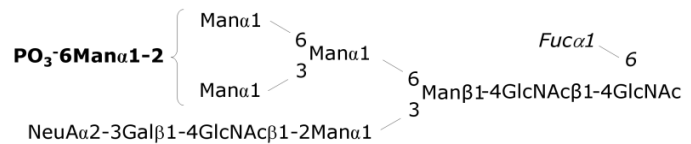


Name: Monosialylated Phosphorylated Hybrid type Galb1-4GlcNAc(Man6GlcNAc2) plus proximal 1-6-linked fucose

Catalogue Number: GTP 1N(2,3) Man6Lac-6P+F

Price (€)

10 μ g = 780

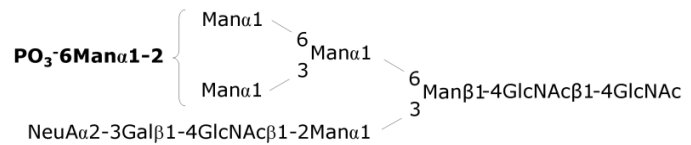


Name: Monosialylated Phosphorylated Hybrid type Galb1-4GlcNAc(Man6GlcNAc2)

Catalogue Number: GTP 1N(2,3) Man6Lac-6P

Price (€)

10 μ g = 780



Oligomannosidic complex type

Incomplete/immature oligosaccharide chains and oligomannosidic N-glycans in biopharmaceutical glycoproteins should be avoided according to current opinion of regulatory authorities. If present in cell culture, the glycoforms containing these carbohydrate chains can be removed during appropriate down-stream processing steps or by medium / process optimization. TheraProteins oligomannosidic structures are used as reference standards in product optimization studies/development and also in quality testing.

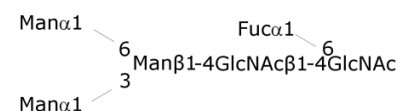
Name: Oligomannosidic (Man3GlcNAc2) plus proximal α 1 \rightarrow 6Fucose

Catalogue Number: GTP Man3+F

Price (€)

10 μ g = 210

20 μ g = 380



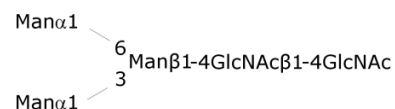


Name: Oligmannosidic (Man3GlcNAc2)

Catalogue Number: GTP Man3

Price (€)

20µg = 150

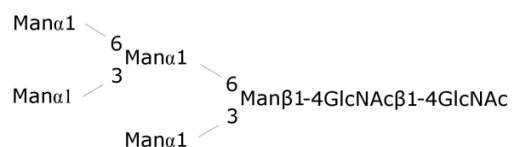


Name: Oligmannosidic (Man5GlcNAc2)

Catalogue Number: GTP Man5

Price (€)

20µg = 150

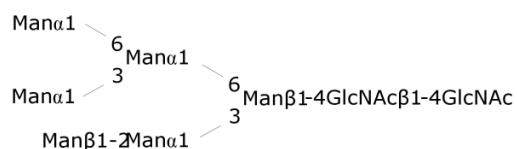


Name: Oligmannosidic (Man6GlcNAc2)

Catalogue Number: GTP Man6

Price (€)

20µg = 160

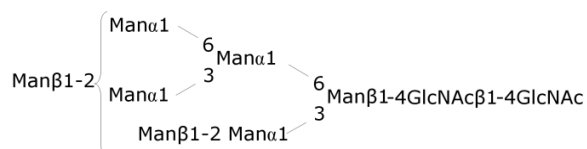


Name: Oligmannosidic (Man7GlcNAc2)

Catalogue Number: GTP Man7

Price (€)

20µg = 150

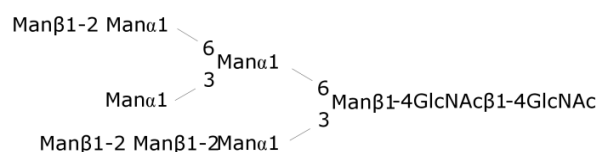


Name: Oligmannosidic (Man8GlcNAc2)

Catalogue Number: GTP Man8

Price (€)

20µg = 190

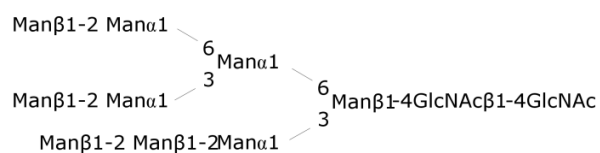


Name: Oligmannosidic (Man9GlcNAc2)

Catalogue Number: GTP Man9

Price (€)

20µg = 240





Lewis X and Sialyl Lewis X Structures

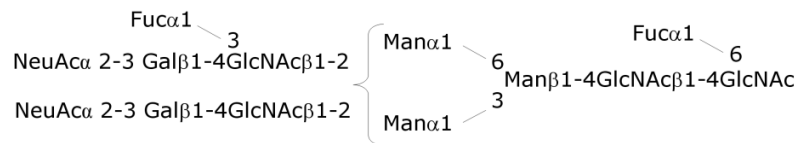
Lewis-type structures play an important role in biological recognition phenomena. In the area of recombinant glycoprotein therapeutics for use in humans, the presence of peripherally fucosylated (Lewis-type) glycans is assumed to be a risk when present in cytokines and hormone-like polypeptides. Different forms of N-glycan structures bearing Lewis X- or sialyl-Lewis X-type structures are available from TheraProteins. In the catalogue only LewisX and sialyl-LewisX structures are contained. For other N-glycans with Lewis or sialyl lewis type (peripheral) fucose please contact us.

Name: Disialylated Diantennary with one Lewis X motif plus proximal $\alpha 1 \rightarrow 6$ fucose

Catalogue Number: GTP 2N(2,3)-2A+1Lx+F

Price (€)

10 μ g = 390

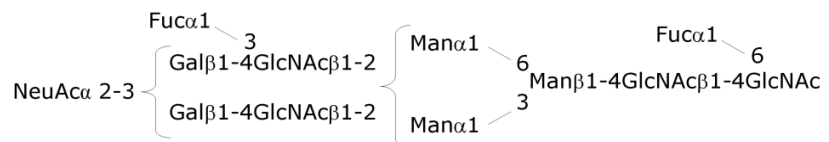


Name: Monosialylated Diantennary with one Lewis X motif plus proximal $\alpha 1 \rightarrow 6$ fucose

Catalogue Number: GTP 1N(2,3)-2A+1Lx+F

Price (€)

10 μ g = 390

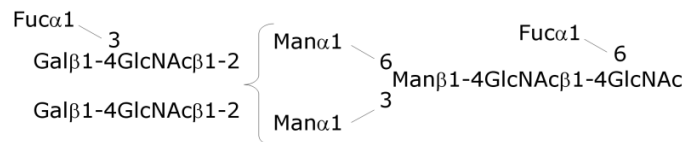


Name: Asialo Diantennary with one Lewis X motif plus proximal $\alpha 1 \rightarrow 6$ fucose

Catalogue Number: GTP 0N-2A+1Lx+F

Price (€)

10 μ g = 340

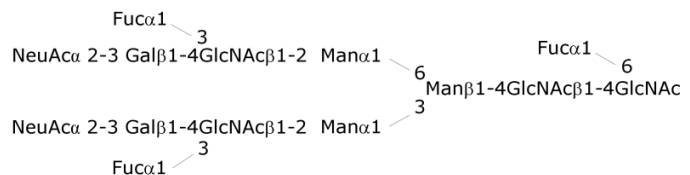


Name: Disialylated Diantennary with two Lewis X motif plus proximal $\alpha 1 \rightarrow 6$ fucose

Catalogue Number: GTP 2N(2,3)-2A+2Lx+F

Price (€)

10 μ g = 420

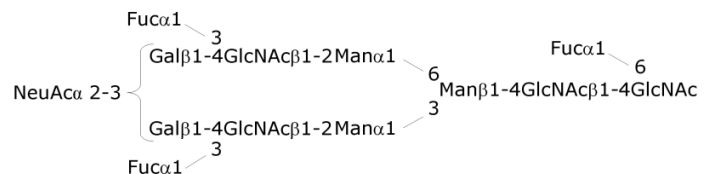


Name: Monosialylated Diantennary with two Lewis X motif plus proximal $\alpha 1 \rightarrow 6$ fucose

Catalogue Number: GTP 1N(2,3)-2A+2Lx+F

Price (€)

10 μ g = 435



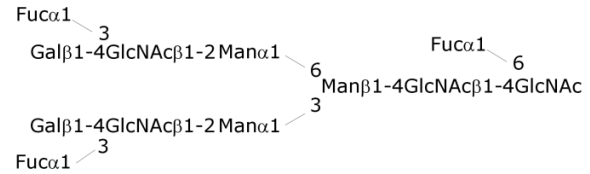


Name: Asialo Diantennary with two Lewis X motif plus proximal $\alpha 1 \rightarrow 6$ fucose

Catalogue Number: GTP 0N-2A+2Lx+F

Price (€)

10 μ g = 360



Gala1-3Gal motif containing structures

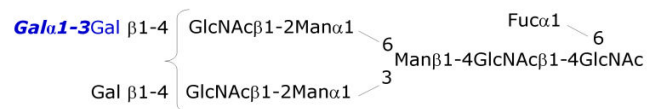
Some recombinant glycoproteins (e.g. from CHO cells) contain significant amounts of undesired glycan structures with the **Gala1-3Gal** $\beta 1-4$ GlcNAc–motif which are assumed to be antigenic in humans. TheraProteins provides appropriate reference oligosaccharides for detection of these glycans at early stages of biotech process set-up with mammalian expression systems and to quantify them during downstream processing steps and in the final drug substance.

Name: Asialo diantennary plus 1 $\alpha 1 \rightarrow 3$ Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: 0N-2A+1 $\alpha 1,3$ Gal+F

Price (€)

10 μ g = 320

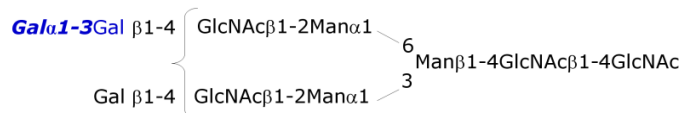


Name: Asialo diantennary plus 1 $\alpha 1 \rightarrow 3$ Gal

Catalogue Number: 0N-2A+1 $\alpha 1,3$ Gal

Price (€)

10 μ g = 320

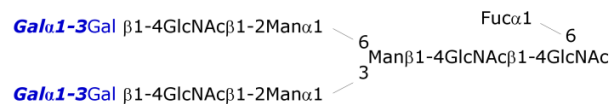


Name: Asialo diantennary plus 2 $\alpha 1 \rightarrow 3$ Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: 0N-2A+2 $\alpha 1,3$ Gal+F

Price (€)

10 μ g = 360

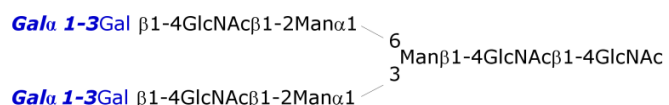


Name: Asialo diantennary plus 2 $\alpha 1 \rightarrow 3$ Gal

Catalogue Number: 0N-2A+2 $\alpha 1,3$ Gal

Price (€)

10 μ g = 360



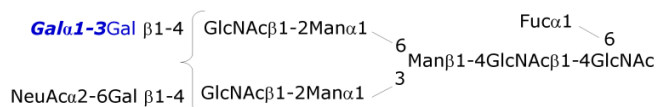


Name: Monosialylated (2-6 linked) diantennary plus 1 $\alpha 1 \rightarrow 3$ Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: 1N(2,6)-2A+1 $\alpha 1,3$ Gal+F

Price (€)

10 μ g = 315

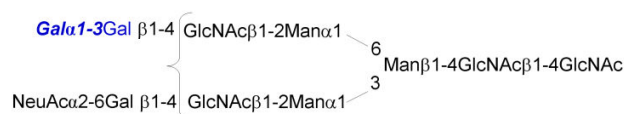


Name: Monosialylated (2-6 linked) diantennary plus 1 $\alpha 1 \rightarrow 3$ Gal

Catalogue Number: 1N(2,6)-2A+1 $\alpha 1,3$ Gal

Price (€)

10 μ g = 320

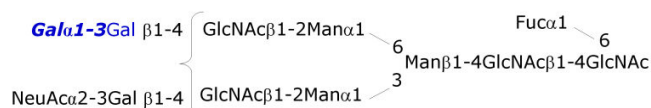


Name: Monosialylated (2-3 linked) diantennary plus 1 $\alpha 1 \rightarrow 3$ Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: 1N(2,3)-2A+1 $\alpha 1,3$ Gal+F

Price (€)

10 μ g = Upon
request

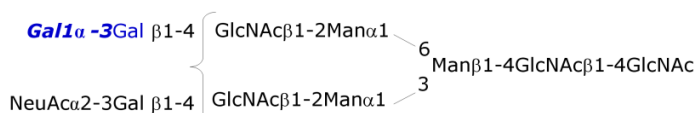


Name: Monosialylated (2-3 linked) diantennary plus 1 $\alpha 1 \rightarrow 3$ Gal

Catalogue Number: 1N(2,3)-2A+1 $\alpha 1,3$ Gal

Price (€)

10 μ g = Upon
request





Recombinant antibodies N-glycans mapping

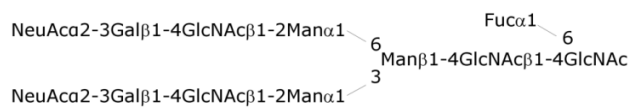
For recombinant antibody glycosylation Quality Control release testing by oligosaccharide mapping/profiling procedures TheraProteins offers more than 35 different pure and fully characterized and quantified N-glycan structures that can be present in recombinant antibodies from e.g. *CHO cells*). Theraprotein's sialylated glycan antibody library contains structures with NeuAc in **$\alpha 2 \rightarrow 3$ linkage** and all of them are available with and without proximal fucose. These structures are not supplied by other companies. In addition we also provide the structures with **$\alpha 2 \rightarrow 6$ linked sialic acid containing oligosaccharides**.

Name: Disialylated (2-3 linked) Diantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 2N(2,3)-2A+F

Price (€)

20 μ g = 285

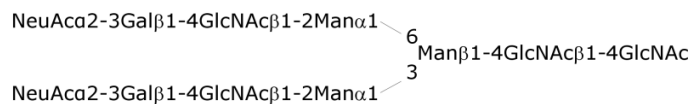


Name: Disialylated (2-3 linked) Diantennary

Catalogue Number: GTP 2N(2,3)-2A

Price (€)

20 μ g = 290

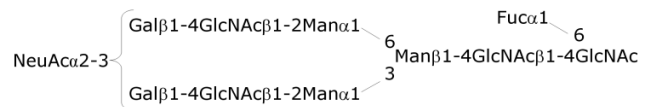


Name: Monosialylated (2-3 linked) Diantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 1N(2,3)-2A+F

Price (€)

20 μ g = 285

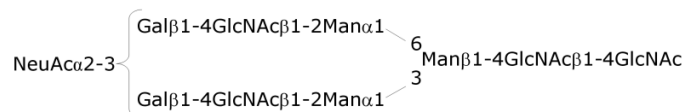


Name: Monosialylated (2-3 linked) Diantennary

Catalogue Number: GTP 1N(2,3)-2A

Price (€)

20 μ g = 290

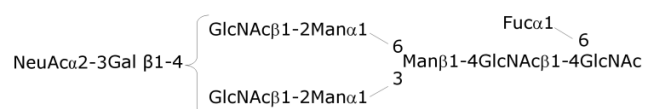


Name: Monosialylated (2-3 linked) Diantennary Minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 1N(2,3)-2A-1G+F

Price (€)

20 μ g = 320



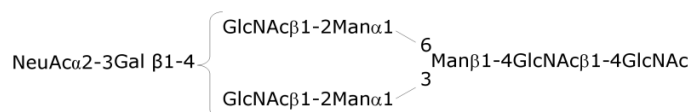


Name: Monosialylated (2-3 linked) Diantennary Minus 1 Gal

Catalogue Number: GTP 1N(2,3)-2A-1G

Price (€)

20µg = 340

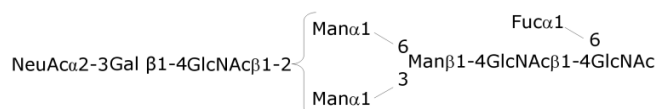


Name: Monosialylated (2-3 linked) Diantennary Minus 1 Gal minus 1 GlcNAc plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 1N(2,3)-2A-1G-GN+F

Price (€)

20µg = 340

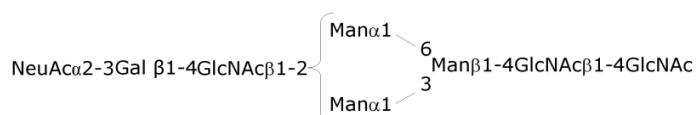


Name: Monosialylated (2-3 linked) Diantennary Minus 1 Gal minus 1 GlcNAc

Catalogue Number: GTP 1N(2,3)-2A-1G-GN

Price (€)

20µg = 360

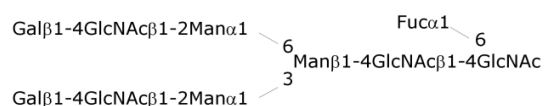


Name: Asialo Diantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 0N-2A+F

Price (€)

20µg = 255

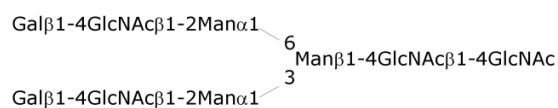


Name: Asialo Diantennary

Catalogue Number: GTP 0N-2A

Price (€)

20µg = 205

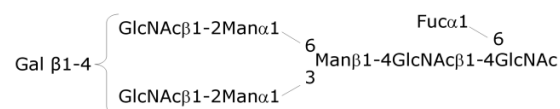


Name: Asialo Diantennary Minus 1 Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 0N-2A-1G+F

Price (€)

20µg = 310



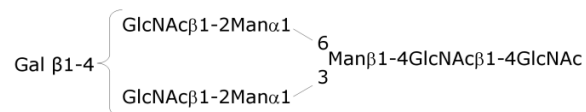


Name: Asialo Diantennary Minus 1 Gal

Catalogue Number: GTP 0N-2A-1G

Price (€)

20µg = 240

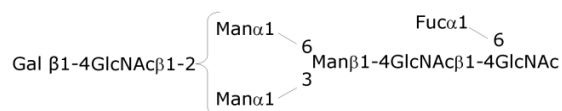


Name: Asialo diantennary minus 1 Gal minus 1 GlcNAc plus proximal α1→6Fucose

Catalogue Number: GTP 0N-2A-1G-GN+F

Price (€)

20µg = 340

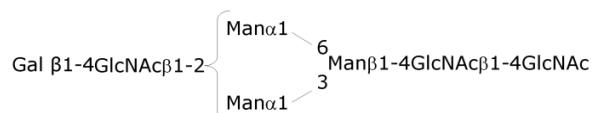


Name: Asialo diantennary minus 1 Gal minus 1 GlcNAc

Catalogue Number: GTP 0N-2A-1G-1GN

Price (€)

20µg = 245

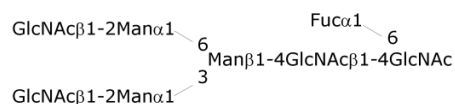


Name: Asialo diantennary agalacto plus proximal α1→6Fucose

Catalogue Number: GTP 0N-2A-2G+F

Price (€)

20µg = 320

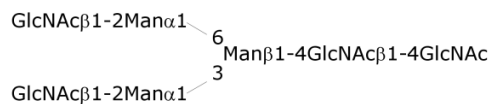


Name: Asialo diantennary agalacto

Catalogue Number: GTP 0N-2A-2G

Price (€)

20µg = 240

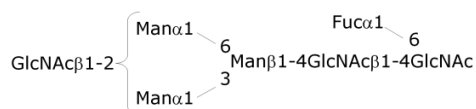


Name: Asialo diantennary agalacto without 1 GlcNAc plus proximal α1→6Fucose

Catalogue Number: GTP 0N-2A-2G-1GN+F

Price (€)

20µg = 300



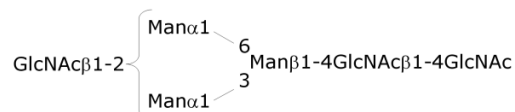


Name: Asialo diantennary agalacto without 1 GlcNAc

Catalogue Number: GTP ON-2A-2G-1GN

Price (€)

20µg = 245

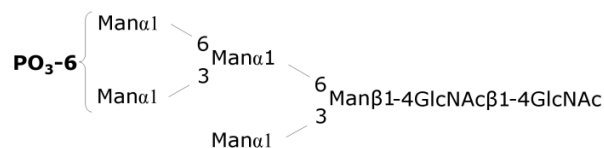


Name: Phosphorylated oligmannosidic (Man5GlcNAc2)

Catalogue Number: GTP Man5-6P

Price (€)

10µg = 420

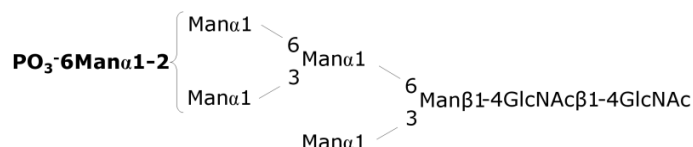


Name: Phosphorylated oligmannosidic (Man6GlcNAc2)

Catalogue Number: GTP Man6-6P

Price (€)

10µg = 495

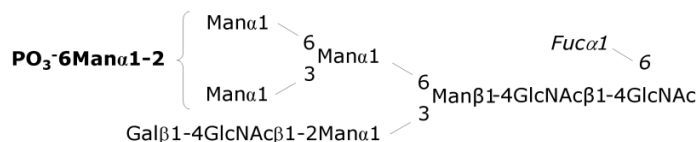


Name: Phosphorylated Hybrid type Galb1-4GlcNAc(Man6GlcNAc2) plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP ON Man6Lac-6P+F

Price (€)

10µg = 620

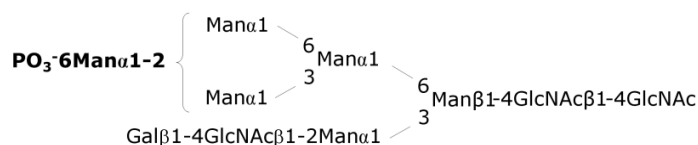


Name: Phosphorylated Hybrid type Galb1-4GlcNAc(Man6GlcNAc2)

Catalogue Number: GTP ON Man6Lac-6P

Price (€)

10µg = 640

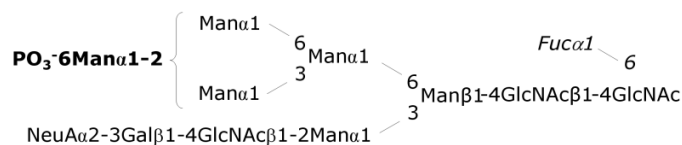


Name: Monosialylated Phosphorylated Hybrid type Galb1-4GlcNAc(Man6GlcNAc2) plus proximal 1-6-linked fucose

Catalogue Number: GTP 1N(2,3) Man6Lac-6P+F

Price (€)

10µg = 780



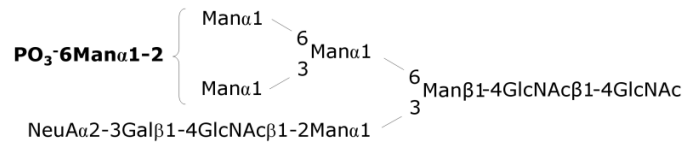


Name: Monosialylated Phosphorylated Hybrid type Galb1-4GlcNAc(Man6GlcNAc2)

Catalogue Number: GTP 1N(2,3) Man6Lac-6P

Price (€)

10µg = 780

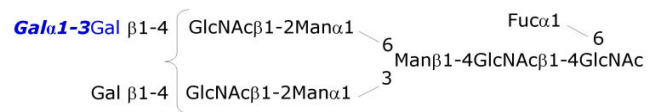


Name: Asialo diantennary plus 1 $\alpha\text{1}\rightarrow\text{3Gal}$ plus proximal $\alpha\text{1}\rightarrow\text{6Fucose}$

Catalogue Number: 0N-2A+1 $\alpha\text{1,3Gal}$ +F

Price (€)

10µg = 320

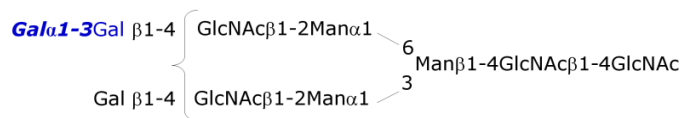


Name: Asialo diantennary plus 1 $\alpha\text{1}\rightarrow\text{3Gal}$

Catalogue Number: 0N-2A+1 $\alpha\text{1,3Gal}$

Price (€)

10µg = 320

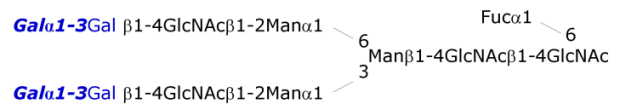


Name: Asialo diantennary plus 2 $\alpha\text{1}\rightarrow\text{3Gal}$ plus proximal $\alpha\text{1}\rightarrow\text{6Fucose}$

Catalogue Number: 0N-2A+2 $\alpha\text{1,3Gal}$ +F

Price (€)

10µg = 360

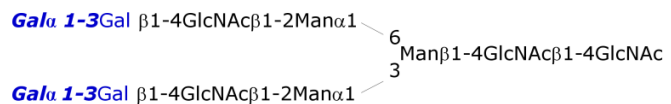


Name: Asialo diantennary plus 2 $\alpha\text{1}\rightarrow\text{3Gal}$

Catalogue Number: 0N-2A+2 $\alpha\text{1,3Gal}$

Price (€)

10µg = 360

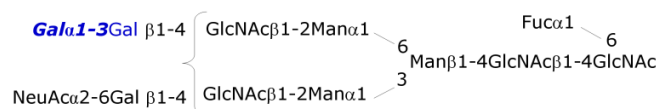


Name: Monosialylated (2-6 linked) diantennary plus 1 $\alpha\text{1}\rightarrow\text{3Gal}$ plus proximal $\alpha\text{1}\rightarrow\text{6Fucose}$

Catalogue Number: 1N(2,6)-2A+1 $\alpha\text{1,3Gal}$ +F

Price (€)

10µg = 315



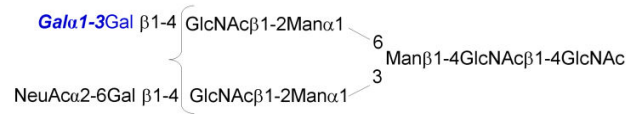


Name: Monosialylated (2-6 linked) diantennary plus 1 $\alpha 1 \rightarrow 3$ Gal

Catalogue Number: 1N(2,6)-2A+1 $\alpha 1,3$ Gal

Price (€)

10 μ g = 320

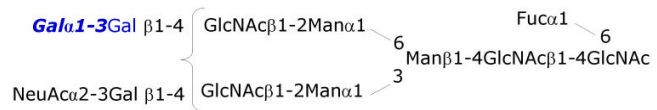


Name: Monosialylated (2-3 linked) diantennary plus 1 $\alpha 1 \rightarrow 3$ Gal plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: 1N(2,3)-2A+1 $\alpha 1,3$ Gal+F

Price (€)

10 μ g = Upon
request

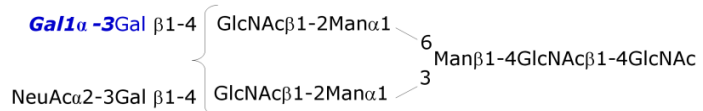


Name: Monosialylated (2-3 linked) diantennary plus 1 $\alpha 1 \rightarrow 3$ Gal

Catalogue Number: 1N(2,3)-2A+1 $\alpha 1,3$ Gal

Price (€)

10 μ g = Upon
request

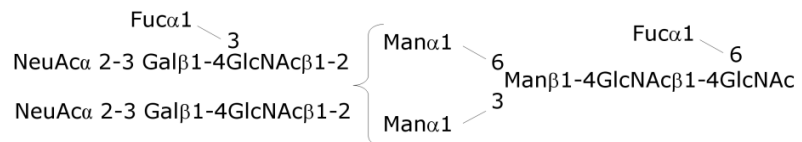


Name: Disialylated Diantennary with one Lewis X motif plus proximal $\alpha 1 \rightarrow 6$ fucose

Catalogue Number: GTP 2N(2,3)-2A+1Lx+F

Price (€)

10 μ g = 390

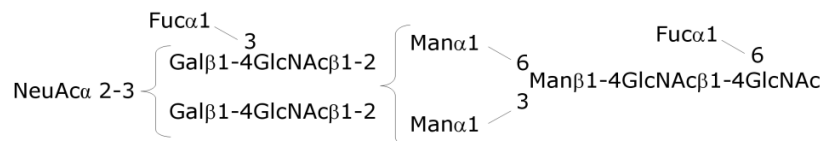


Name: Monosialylated Diantennary with one Lewis X motif plus proximal $\alpha 1 \rightarrow 6$ fucose

Catalogue Number: GTP 1N(2,3)-2A+1Lx+F

Price (€)

10 μ g = 390

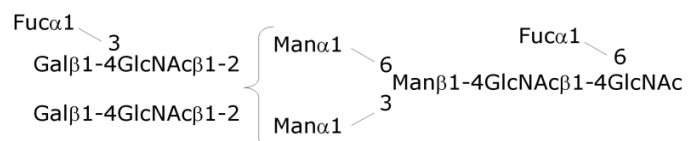


Name: Asialo Diantennary with one Lewis X motif plus proximal $\alpha 1 \rightarrow 6$ fucose

Catalogue Number: GTP 0N-2A+1Lx+F

Price (€)

10 μ g = 340



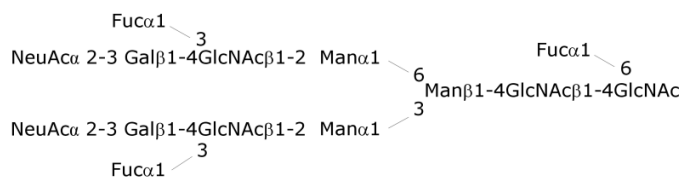


Name: Disialylated Diantennary with two Lewis X motif plus proximal $\alpha 1 \rightarrow 6$ fucose

Catalogue Number: GTP 2N(2,3)-2A+2Lx+F

Price (€)

10 μ g = 420

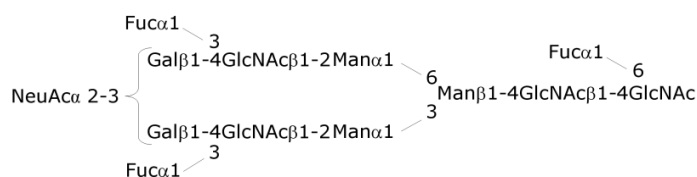


Name: Monosialylated Diantennary with two Lewis X motif plus proximal $\alpha 1 \rightarrow 6$ fucose

Catalogue Number: GTP 1N(2,3)-2A+2Lx+F

Price (€)

10 μ g = 435

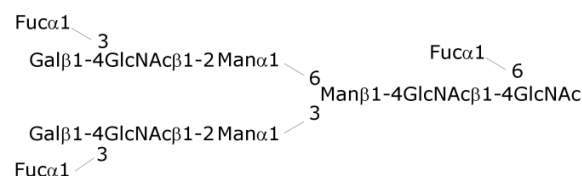


Name: Asialo Diantennary with two Lewis X motif plus proximal $\alpha 1 \rightarrow 6$ fucose

Catalogue Number: GTP 0N-2A+2Lx+F

Price (€)

10 μ g = 360

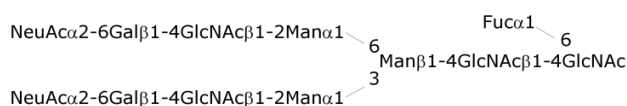


Name: Disialylated diantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 2N(2,6)-2A+F

Price (€)

20 μ g = 250

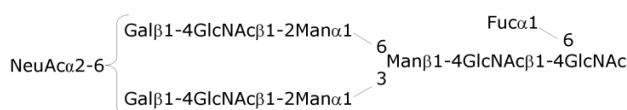


Name: Monosialylated diantennary plus proximal $\alpha 1 \rightarrow 6$ Fucose

Catalogue Number: GTP 1N(2,6)-2A+F

Price (€)

20 μ g = 250

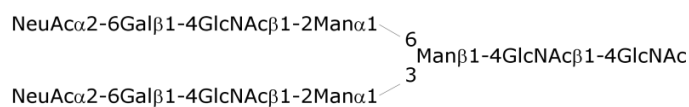


Name: Disialylated diantennary

Catalogue Number: GTP 2N(2,6)-2A

Price (€)

20 μ g = 240



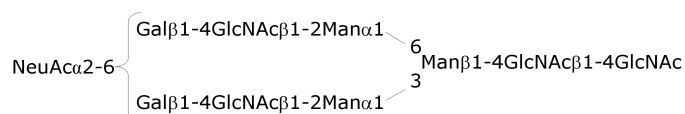


Name: Monosialylated diantennary

Catalogue Number: GTP 1N(2,6)-2A

Price (€)

20µg = 240

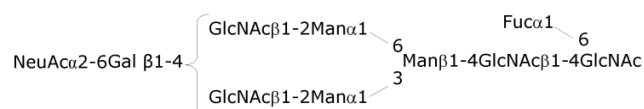


Name: Monosialylated (2-6 linked) Diantennary Minus 1 Gal plus proximal α1→6Fucose

Catalogue Number: GTP 1N(2,6)-2A-1G+F

Price (€)

20µg = 290

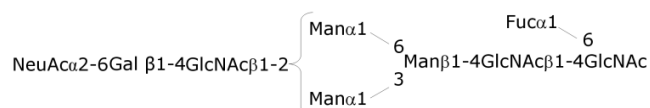


Name: Monosialylated (2-6 linked) Diantennary Minus 1 Gal minus 1 GlcNAc plus proximal α1→6Fucose

Catalogue Number: GTP 1N(2,6)-2A-1G-GN+F

Price (€)

20µg = 310

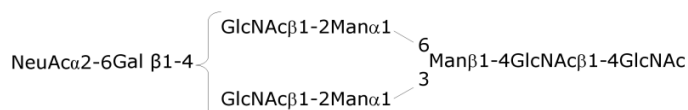


Name: Monosialylated (2-6 linked) Diantennary Minus 1 Gal

Catalogue Number: GTP 1N(2,6)-2A-1G

Price (€)

20µg = 295

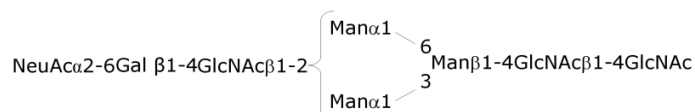


Name: Monosialylated (2-6 linked) Diantennary Minus 1 Gal minus 1 GlcNAc

Catalogue Number: GTP 1N(2,6)-2A-1G-GN

Price (€)

20µg = 320



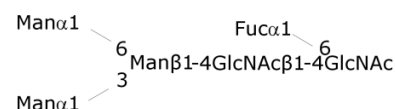
Name: Oligmannosidic (Man3GlcNAc2) plus proximal α1→6Fucose

Catalogue Number: GTP Man3+F

Price (€)

10µg = 210

20µg = 380



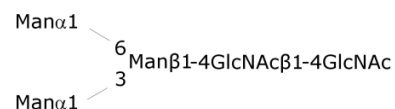


Name: Oligmannosidic (Man3GlcNAc2)

Catalogue Number: GTP Man3

Price (€)

20µg = 150

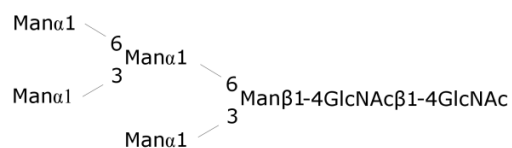


Name: Oligmannosidic (Man5GlcNAc2)

Catalogue Number: GTP Man5

Price (€)

20µg = 150

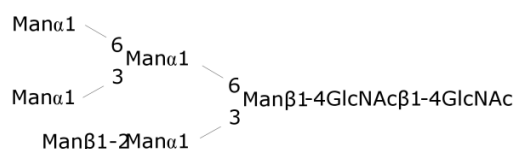


Name: Oligmannosidic (Man6GlcNAc2)

Catalogue Number: GTP Man6

Price (€)

20µg = 160

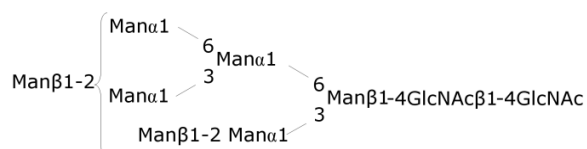


Name: Oligmannosidic (Man7GlcNAc2)

Catalogue Number: GTP Man7

Price (€)

20µg = 150

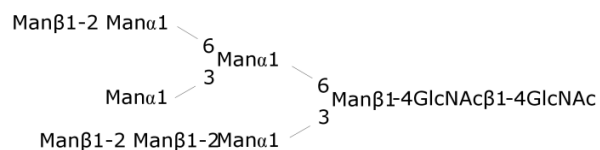


Name: Oligmannosidic (Man8GlcNAc2)

Catalogue Number: GTP Man8

Price (€)

20µg = 190



Name: Oligmannosidic (Man9GlcNAc2)

Catalogue Number: GTP Man9

Price (€)

20µg = 240

