IsoSep

product number

65/58

G_{T1a}-ganglioside

$IV^3(NeuAc)_2,II^3NeuAc\text{-}GgOse_4Cer$

Neu5Acα2–8Neu5Acα2–3Galβ1-3GalNAcβ1-4Galβ1-4Glcβ1-1Cer
3
1
Neu5Acα2

[64522-98-1]
Source: Calf brain
Purity: >90% (by NMR and TLC)
Storage: 0-5°C
Reference: Ando S, Yu RK (1977) J Biol Chem 252:6247

The ganglioside has been isolated and purified from calf brain by extraction, ion-exchange chromatograpy and repeated silica gel chromatograpy.

The carbohydrate part of the ganglioside consists of three sialic acids glycosidicly linked to a gangliotetraose core (see structure above). The carbohydrate moiety is glycosidicly linked to the sphingosine moiety of the ceramide. The ceramide moiety consists of a sphingosine with a long chain fatty acid amid linked to the sphingosine(the chain length of the fatty acid varies from C-14 to C-24 and the chains can be saturated as well as unsaturated)