



Product Information

GM4(d18:1/18:0)

Cat. No.: X26-02-ZQ3137

Size: 1 mg; 10 mg; 25 mg; 100 mg

Compound CID: 44261965

Synonym: NeuAcalpha2-3Galbeta-Cer(d18:1/18:0)

This product is for research use only and is not intended for diagnostic use.

Product Information

Description	A stearyl-anchored GM4 providing a standard physiological model for analyzing sialic acid-lectin (Siglec) interactions.
Molecular Weight	1019.3
Molecular Formula	C ₅₃ H ₉₈ N ₂ O ₁₆
IUPAC Name	(2 <i>S</i> ,5 <i>R</i>)-5-acetamido-2-[(3 <i>S</i> ,4 <i>S</i> ,6 <i>R</i>)-3,5-dihydroxy-2-(hydroxymethyl)-6-[(<i>E</i> ,2 <i>S</i> ,3 <i>R</i>)-3-hydroxy-2-(octadecanoylamino)octadec-4-enoyloxy]oxan-4-yl]oxy-4-hydroxy-6-[(1 <i>R</i> ,2 <i>R</i>)-1,2,3-trihydroxypropyl]oxane-2-carboxylic acid
InChI	InChI=1S/C53H98N2O16/c1-4-6-8-10-12-14-16-18-19-21-23-25-27-29-31-33-44(62)55-39(40(59)32-30-28-26-24-22-20-17-15-13-11-9-7-5-2)37-68-51-48(65)50(47(64)43(36-57)69-51)71-53(52(66)67)34-41(60)45(54-38(3)58)49(70-53)46(63)42(61)35-56/h30,32,39-43,45-51,56-57,59-61,63-65H,4-29,31,33-37H2,1-3H3,(H,54,58)(H,55,62)(H,66,67)/b32-30+/t39-,40+,41?,42+,43?,45+,46+,47-,48?,49?,50-,51+,53-/m0/s1
InChI Key	ZZZGALYQB DIVPQ-IJQFSYRPSA-N
Canonical SMILES	CCCCCCCCCCCCCCCCCCCC(=O)N[C@@H](CO[C@H]1C([C@H]([C@H](C(O1)CO)O)O[C@@]2(C[C@H](C(O2)[C@@H]([C@@H](CO)O)O)NC(=O)C)O)C(=O)O)[C@@H](/C=C/CCCCCCCCCCCC)O
Source	Chemical synthesis
Form	Solid or liquid
Purity	≥90%
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for one year when stored at the recommended temperature in lyophilized powder.
Quality Level	Research level



Applications

GM4(d18:1/18:0) can be used to study the impact of ceramide chain length on the enzymatic elongation of complex sialylated glycans.

Storage

Store at -20°C.
