CD BioGlyco
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Product Information

DGMG(16:1(3E)3Me,7ME,11Me,15Me)/0:0)

Cat. No.: X26-02-ZQ271

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

Compound CID: 171120049

Synonym: 1-(phytyl)-3-*O*-(α-D-galactosyl1-6)-β-D-galactosyl-sn-glycerol

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

Product Information

Description	A complex digalactosyl monoacylglycerol with a multi-methyl branched 16:1(3E) (phytenoyl-like) chain, resulting in a sterically hindered and highly hydrophobic tail.
Molecular Weight	694.9
Molecular Formula	$C_{35}H_{66}O_{13}$
IUPAC Name	(2*R*,3*R*,4*S*,5*R*,6*S*)-2-(hydroxymethyl)-6-[[(2*R*,3*R*,4*S*,5*R*,6*R*)-3,4,5-trihydroxy-6-[(2*R*)-2-hydroxy-3-[(*E*)-3,7,11,15-tetramethylhexadec-2-enoxy]propoxy]oxan-2-yl]methoxy]oxane-3,4,5-triol
InChI	InChI=1S/C35H66O13/c1-21(2)9-6-10-22(3)11-7-12-23(4)13-8-14-24(5)15-16-44-18-25(37)19-45-34-33(43)31(41)29(39)27(48-34)20-46-35-32(42)30(40)28(38)26(17-36)47-35/h15,21-23,25-43H,6-14,16-20H2,1-5H3/b24-15+/t22?,23?,25-,26-,27-,28+,29+,30+,31+,32-,33-,34-,35+/m1/s1
InChI Key	KFCDLPAQDMBDQW-NZPIXCFLSA-N
Canonical SMILES	CC(C)CCCC(C)CCCC(C)CCC/C(=C/COC[C@H](CO[C@H]1[C@@H]([C@H]([C@H]([C@H](O1)CO[C@@H]2[C@@H]([C@H]([C@H]([C@H](O2)CO)O)O)O)O)O)O)O)/C
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	DGMG(16:1(3E)3Me,7ME,11Me,15Me)/0:0) can be used in the study of branched-chain glycolipids and their influence on membrane permeability in specialized biological systems.
Storage	Store at -20ºC.

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