CD BioGlyco

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Product Information

DGMG(18:4(6Z,9Z,12Z,15Z)/0:0)

Cat. No.: X26-02-ZQ259

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

Compound CID: 163067183

Synonym: 1-(6*Z*,9*Z*,12*Z*,15*Z*-octadecatetraenoyl)-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 digalactosyl monoacylglycerol featuring two galactose units and a C18:4 chain; the large disaccharide headgroup significantly increases the molecule's cross-sectional area and hydrophilicity.
Molecular Weight	674.8
Molecular Formula	$C_{33}H_{54}O_{14}$
IUPAC Name	[(2*S*)-2-hydroxy-3-[(2*R*,3*R*,4*S*,5*R*,6*R*)-3,4,5-trihydroxy-6-[[(2*S*,3*R*,4*S*,5*R*,6*R*)-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxymethyl]oxan-2-yl]oxypropyl] (6*Z*,9*Z*,12*Z*,15*Z*)-octadeca-6,9,12,15-tetraenoate
InChI	InChI=1S/C33H54O14/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-25(36)43-19-22(35)20-44-32-31(42)29(40)27(38)24(47-32)21-45-33-30(41)28(39)26(37)23(18-34)46-33/h3-4,6-7,9-10,12-13,22-24,26-35,37-42H,2,5,8,11,14-21H2,1H3/b4-3-,7-6-,10-9-,13-12-/t22-,23-,24-,26+,27+,28+,29+,30-,31-,32-,33+/m1/s1
InChI Key	AXPZWZNFVKVRRH-WNLYTLCASA-N
Canonical SMILES	CC/C=C\C/C=C\C/C=C\C/C=C\CCCCC(=O)OC[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
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(18:4(6Z,9Z,12Z,15Z)/0:0) can be used in the study of digalactosylmonoacylglycerols and their role in stabilizing lipid-protein complexes in thylakoids.

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Storage	Store at -20ºC.

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