CD BioGlyco

SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA

Tel: 1-631-637-6119 | Email: info@bioglyco.com

Product Information

DGDG(18:5(3Z,6Z,9Z,12Z,15Z)/18:4(6Z,9Z,12Z,15Z))

Cat. No.: X26-02-ZQ281

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

Compound CID: 52922088

Synonym: 1-(3*Z*,6*Z*,9*Z*,12*Z*,15*Z*-octadecapentaenoyl)-2-(6*Z*,9*Z*,12*Z*,15*Z*-octadecatetraenoyl)-3-*O*-(6'-*O*-α-D-galactosyl-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 diacylglycerol with two polyunsaturated C18 chains; the large neutral disaccharide headgroup promotes a bilayer-stabilizing geometry.
Molecular Weight	931.2
Molecular Formula	$C_{51}H_{78}O_{15}$
IUPAC Name	[(2*S*)-1-[(3*Z*,6*Z*,9*Z*,12*Z*,15*Z*)-octadeca-3,6,9,12,15-pentaenoyl]oxy-3-[(2*R*,5*R*,6*R*)-3,4,5-trihydroxy-6-[[(2*S*,5*R*,6*R*)-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxymethyl]oxan-2-yl]oxypropan-2-yl](6*Z*,9*Z*,12*Z*,15*Z*)-octadeca-6,9,12,15-tetraenoate
InChI	InChI=1S/C51H78O15/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-29-31-33-42(53)61-36-39(64-43(54)34-32-30-28-26-24-22-20-18-16-14-12-10-8-6-4-2)37-62-50-49(60)47(58)45(56)41(66-50)38-63-51-48(59)46(57)44(55)40(35-52)65-51/h5-8,11-14,17-20,23-26,29,31,39-41,44-52,55-60H,3-4,9-10,15-16,21-22,27-28,30,32-38H2,1-2H3/b7-5-,8-6-,13-11-,14-12-,19-17-,20-18-,25-23-,26-24-,31-29-/t39-,40-,41-,44+,45+,46?,47?,48?,49?,50-,51+/m1/s1
InChI Key	IXGDAVSSYHYPJX-LYVJQUFSSA-N
Canonical SMILES	CC/C=C\C/C=C\C/C=C\C/C=C\CCCCC(=O)O[C@@H](CO[C@H]1C(C([C@H]([C@H](O1)CO[C@@H]2C(C([C@H]([C@H](O2)CO)O)O)O)O)O)O)COC(=O)C/C=C\C/C=C\C/C=C\C/C=C\C/C=C\CC
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

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Applications	DGDG(18:5(3Z,6Z,9Z,12Z,15Z)/18:4(6Z,9Z,12Z,15Z)) can be used in the research of ultra-polyunsaturated digalactosyl lipids and their role in low-temperature membrane adaptation.
Storage	Store at -20ºC.

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