CD BioGlyco

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

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

Product Information

MGDG(20:5(5Z,8Z,11Z,14Z,17Z)/18:3(9Z,12Z,15Z))

Cat. No.: X26-02-ZQ284

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

Compound CID: 52922091

Synonym: 1-(5*Z*,8*Z*,11*Z*,14*Z*,17*Z*-eicosapentaenoyl)-2-(9*Z*,12*Z*,15*Z*-octadecatrienoyl)-3-*O*-β-D-galactosyl-sn-glycerol

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

Product Information

Description	A diacyl monogalactosyl glycerol featuring an EPA-like C20:5 chain and an alpha-linolenyl chain; represents a highly fluid, polyunsaturated glycolipid species.
Molecular Weight	799.1
Molecular Formula	$C_{47}H_{74}O_{10}$
IUPAC Name	[(2*S*)-2-[(9*Z*,12*Z*,15*Z*)-octadeca-9,12,15-trienoyl]oxy-3-[(2*R*,5*R*,6*R*)-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxypropyl] (5*Z*,8*Z*,11*Z*,14*Z*,17*Z*)-icosa-5,8,11,14,17-pentaenoate
InChI	InChI=1S/C47H74O10/c1-3-5-7-9-11-13-15-17-19-20-22-23-25-27-29-31-33-35-42(49)54-38-40(39-55-47-46(53)45(52)44(51)41(37-48)57-47)56-43(50)36-34-32-30-28-26-24-21-18-16-14-12-10-8-6-4-2/h5-8,11-14,17-19,21-23,27,29,40-41,44-48,51-53H,3-4,9-10,15-16,20,24-26,28,30-39H2,1-2H3/b7-5-,8-6-,13-11-,14-12-,19-17-,21-18-,23-22-,29-27-/t40-,41-,44+,45?,46?,47-/m1/s1
InChI Key	WUHLDGKUYJARLK-YJRWXVSUSA-N
Canonical SMILES	CC/C=C\C/C=C\C/C=C\CCCCCCCC(=O)O[C@@H](CO[C@H]1C(C([C@H]([C@H](O1)CO)O)O)O)COC(=O)CCC/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
Applications	MGDG(20:5(5Z,8Z,11Z,14Z,17Z)/18:3(9Z,12Z,15Z)) can be used in marine biochemistry to research the structural diversity of EPA-containing galactolipids.
Storage	Store at -20ºC.

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