CD BioGlyco

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Product Information

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

Cat. No.: X26-02-ZQ283

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

Compound CID: 52922090

Synonym: 1,2-di-(3*Z*,6*Z*,9*Z*,12*Z*,15*Z*-octadecapentaenoyl)-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 monogalactosyl diacylglycerol with two identical 18:5 chains; characterized by extreme hydrophobic disorder and low phase transition temperatures.
Molecular Weight	767
Molecular Formula	$C_{45}H_{66}O_{10}$
IUPAC Name	[(2*S*)-2-[(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-(hydroxymethyl)oxan-2-yl]oxypropyl] (3*Z*,6*Z*,9*Z*,12*Z*,15*Z*)-octadeca-3,6,9,12,15-pentaenoate
InChI	InChI=1S/C45H66O10/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-29-31-33-40(47)52-36-38(37-53-45-44(51)43(50)42(49)39(35-46)55-45)54-41(48)34-32-30-28-26-24-22-20-18-16-14-12-10-8-6-4-2/h5-8,11-14,17-20,23-26,29-32,38-39,42-46,49-51H,3-4,9-10,15-16,21-22,27-28,33-37H2,1-2H3/b7-5-,8-6-,13-11-,14-12-,19-17-,20-18-,25-23-,26-24-,31-29-,32-30-/t38-,39-,42+,43?,44?,45-/m1/s1
InChI Key	LZUMFOJNPXMVHE-KWDNTHNSSA-N
Canonical SMILES	CC/C=C\C/C=C\C/C=C\C/C=C\C/C=C\CC(=O)OC[C@H](CO[C@H]1C(C([C@H]([C@H](O1)CO)O)O)O)OC(=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
Applications	MGDG(18:5(3Z,6Z,9Z,12Z,15Z)/18:5(3Z,6Z,9Z,12Z,15Z)) can be used as a model for studying the biophysical limits of lipid unsaturation in photosynthetic organisms.

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Storage	Store at -20ºC.

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