

Product Information

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

Cat. No.: X26-02-ZQ272

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

Compound CID: 5771744

Synonym: 1,2 di-(9Z,12Z,15Z-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 containing two identical 18:3 chains; this "dilinolenoyl" species is characterized by high membrane curvature and fluidity.
Molecular Weight	775.1
Molecular Formula	C ₄₅ H ₇₄ O ₁₀
IUPAC Name	[(2S)-2-[(9Z,12Z,15Z)-octadeca-9,12,15-trienoyl]oxy-3-[(2R,5R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxypropyl] (9Z,12Z,15Z)-octadeca-9,12,15-trienoate
InChI	InChI=1S/C45H74O10/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/h5-8,11-14,17-20,38-39,42-46,49-51H,3-4,9-10,15-16,21-37H2,1-2H3/b7-5-,8-6-,13-11-,14-12-,19-17-,20-18-/t38-,39-,42+,43?,44?,45-/m1/s1
InChI Key	QUZHZFAQJATMCA-NYFMCUGMSA-N
Canonical SMILES	CC/C=C\C/C=C\C/C=C\C\CCCCCCCC(=O)OC[C@H](CO[C@H]1C(C([C@H]([C@H](O1)CO)O)O)O)OC(=O)CCCCCCC/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(18:3(9Z,12Z,15Z)/18:3(9Z,12Z,15Z)) can be used as a primary model lipid for investigating the liquid-crystalline phase behavior of thylakoid membranes.
Storage	Store at -20°C.



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