

Product Information

MGMG(18:2(9Z,12Z)/0:0)

Cat. No.: X26-02-ZQ256

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

Compound CID: 44631961

Synonym: 1-(9Z,12Z-octadecadienyl)-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 monoacyl monogalactosyl glycerol featuring a linoleoyl (18:2) chain; the molecule combines a neutral galactose headgroup with a flexible, doubly-unsaturated hydrophobic tail.
Molecular Weight	516.7
Molecular Formula	C ₂₇ H ₄₈ O ₉
IUPAC Name	[(2S)-2-hydroxy-3-[(2R,3R,4S,5R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxypropyl] (9Z,12Z)-octadeca-9,12-dienoate
InChI	InChI=1S/C27H48O9/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-23(30)34-19-21(29)20-35-27-26(33)25(32)24(31)22(18-28)36-27/h6-7,9-10,21-22,24-29,31-33H,2-5,8,11-20H2,1H3/b7-6-,10-9-/t21-,22-,24+,25+,26-,27-/m1/s1
InChI Key	LBHUIJRTHBBWHP-GRVKTFRUSA-N
Canonical SMILES	CCCCC/C=C\C/C=C\CCCCCCCC(=O)OC[C@H](CO[C@H]1[C@@H]([C@H]([C@H]([C@H]([C@H](O1)CO)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	MGMG(18:2(9Z,12Z)/0:0) can be used as a model substrate to investigate the enzymatic hydrolysis kinetics of galactolipases in plant biochemistry.
Storage	Store at -20°C.