

Product Information

MGMG(18:4;O/0:0)

Cat. No.: X26-02-ZQ262

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

Compound CID: 101740647

Synonym: 1-(1S,2S)-3-oxo-2-(2'Z-pentenyl)cyclopent-4-eneoctanoyl)-3-O-β-D-galactosyl-sn-glycerol

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

Product Information

Description	An oxygenated monogalactosyl monoacylglycerol; the C18:4 chain is modified with an additional oxygen-containing functional group (e.g., hydroxy or epoxy), increasing tail polarity.
Molecular Weight	528.6
Molecular Formula	C ₂₇ H ₄₄ O ₁₀
IUPAC Name	[(2S)-2-hydroxy-3-[(2R,3R,4S,5R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxypropyl] 8-[(1S,5S)-4-oxo-5-[(Z)-pent-2-enyl]cyclopent-2-en-1-yl]octanoate
InChI	InChI=1S/C27H44O10/c1-2-3-7-11-20-18(13-14-21(20)30)10-8-5-4-6-9-12-23(31)35-16-19(29)17-36-27-26(34)25(33)24(32)22(15-28)37-27/h3,7,13-14,18-20,22,24-29,32-34H,2,4-6,8-12,15-17H2,1H3/b7-3-/t18-,19+,20-,22+,24-,25-,26+,27+/m0/s1
InChI Key	AABZWWBXDMYGEW-VHLFVCRRSA-N
Canonical SMILES	CC/C=C\C[C@H]1[C@H](C=CC1=O)CCCCCCCC(=O)OC[C@H](CO[C@H]2[C@@H]([C@H]([C@H]([C@H](O2)CO)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(18:4;O/0:0) can be used to research the impact of oxidized acyl chains on the chemical stability and signaling properties of plant galactolipids.
Storage	Store at -20°C.