

Product Information

Arabidopside E

Cat. No.: X26-02-ZQ309

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

Compound CID: 16747780

Synonym: 1-((1S,2S)-3-oxo-2-(2'Z-pentenyl)cyclopent-4-eneoctanoyl)-2-(1S,2S)-3-oxo-2-(2'Z-pentenyl)cyclopent-4-enehexanoyl)-3-O-(6'-O-((1S,2S)-3-oxo-2-(2'Z-pentenyl)cyclopent-4-eneoctanoyl)-β-D-galactosyl-sn-glycerol

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

Product Information

Description	A highly oxidized MGDG derivative featuring three OPDA-like units (one esterified to the galactose headgroup); characterized by a very high degree of cyclopentenone density.
Molecular Weight	1049.4
Molecular Formula	C ₆₁ H ₉₂ O ₁₄
IUPAC Name	[(2R,3R,4S,5R,6R)-3,4,5-trihydroxy-6-[(2S)-2-[6-[(1S,5S)-4-oxo-5-[(Z)-pent-2-enyl]cyclopent-2-en-1-yl]hexanoyloxy]-3-[8-[(1S,5S)-4-oxo-5-[(Z)-pent-2-enyl]cyclopent-2-en-1-yl]octanoyloxy]propoxy]oxan-2-yl]methyl 8-[(1S,5S)-4-oxo-5-[(Z)-pent-2-enyl]cyclopent-2-en-1-yl]octanoate
InChI	InChI=1S/C61H92O14/c1-4-7-17-29-48-44(35-38-51(48)62)26-20-12-10-14-23-32-55(65)71-41-47(74-57(67)34-25-16-22-28-46-37-40-53(64)50(46)31-19-9-6-3)42-73-61-60(70)59(69)58(68)54(75-61)43-72-56(66)33-24-15-11-13-21-27-45-36-39-52(63)49(45)30-18-8-5-2/h7-9,17-19,35-40,44-50,54,58-61,68-70H,4-6,10-16,20-34,41-43H2,1-3H3/b17-7-,18-8-,19-9-/t44-,45-,46-,47+,48-,49-,50-,54+,58-,59-,60+,61+/m0/s1
InChI Key	XIDQMQJGTGDFQK-VCLRQILYSA-N
Canonical SMILES	CC/C=C\C[C@H]1[C@H](C=CC1=O)CCCCCCCC(=O)OC[C@@H]2[C@@H]([C@@H]([C@H]([C@@H]([C@@H](O2)OC[C@@H](COC(=O)CCCCCCC[C@H]3C=CC(=O)[C@H]3C/C=C\C)OC(=O)CCCC[C@H]4C=CC(=O)[C@H]4C/C=C\C)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

Arabidopside E can be used as a structural tool to study the biological significance of highly oxygenated MGDG derivatives in Arabidopsis research.

Storage

Store at -20°C.
