CD BioGlyco
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Product Information

SQMG(16:1(13Z)/0:0)

Cat. No.: X26-02-ZQ250

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

Compound CID: 42607389

Synonym: 1-(13Z-hexadecenoyl)-3-(6'-sulfo-α-D-quinovosyl)-sn-glycerol

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

Product Information

Description	A monoacylated sulfoquinovosyl glycerol featuring a C16 chain with a 13Z double bond at the sn-1 position; the anionic sulfonic acid headgroup provides high polarity and a negative charge.
Molecular Weight	554.7
Molecular Formula	$C_{25}H_{46}O_{11}S$
IUPAC Name	[(2*S*,3*S*,6*S*)-6-[(2*S*)-3-[(*Z*)-hexadec-13-enoyl]oxy-2-hydroxypropoxy]-3,4,5-trihydroxyoxan-2-yl]methanesulfonic acid
InChI	InChI=1S/C25H46O11S/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-21(27)34-16-19(26)17-35-25-24(30)23(29)22(28)20(36-25)18-37(31,32)33/h3-4,19-20,22-26,28-30H,2,5-18H2,1H3,(H,31,32,33)/b4-3-/t19-,20-,22-,23?,24?,25+/m1/s1
InChI Key	WPFJBIZXTPFCFW-DHBOFLPISA-N
Canonical SMILES	CC/C=C\CCCCCCCCCCCC(=O)OC[C@H](CO[C@@H]1C(C([C@@H]([C@H](O1)CS(=O)(=O)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	SQMG(16:1(13Z)/0:0) can be used to investigate the impact of fatty acid unsaturation position on the interfacial properties of acidic glycolipids.
Storage	Store at -20ºC.