

Product Information

SQMG(0:0/16:1(9Z))

Cat. No.: X26-02-ZQ251

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

Compound CID: 42607391

Synonym: 2-(9Z-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	An sn-2 monoacyl sulfoquinovosyl glycerol containing a 16:1(9Z) fatty acid; the vacant sn-1 position increases the molecule's surfactant-like properties compared to diacyl analogs.
Molecular Weight	554.7
Molecular Formula	C ₂₅ H ₄₆ O ₁₁ S
IUPAC Name	[(2S,3S,6S)-6-[(2R)-2-[(Z)-hexadec-9-enoyl]oxy-3-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)35-19(16-26)17-34-25-24(30)23(29)22(28)20(36-25)18-37(31,32)33/h7-8,19-20,22-26,28-30H,2-6,9-18H2,1H3,(H,31,32,33)/b8-7-/t19-,20-,22-,23?,24?,25+/m1/s1
InChI Key	WQGNMOOBTOAQJT-FEASXFNBSA-N
Canonical SMILES	<chem>CCCCC/C=C\CCCCCCCC(=O)O[C@H](CO)CO[C@@H]1C(C([C@@H]1[C@H](O1)CS(=O)(=O)O)O)O</chem>
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(0:0/16:1(9Z)) can be used in biophysical research to explore the positional isomer effects of acyl chains on sulfoquinovosylglycerol organization.
Storage	Store at -20°C.