

Product Information

SQDG(16:0/16:0)

Cat. No.: X26-02-ZQ275

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

Compound CID: 481096

Synonym: 1,2-dihexadecanoyl-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 dipalmitoyl sulfoquinovosyl diacylglycerol; a saturated anionic lipid with a rigid hydrophobic core and a strong negative surface charge.
Molecular Weight	795.1
Molecular Formula	C ₄₁ H ₇₈ O ₁₂ S
IUPAC Name	[(2S,3S,4S,5R,6S)-6-[(2S)-2,3-di(hexadecanoyloxy)propoxy]-3,4,5-trihydroxyoxan-2-yl]methanesulfonic acid
InChI	InChI=1S/C41H78O12S/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-29-36(42)50-31-34(32-51-41-40(46)39(45)38(44)35(53-41)33-54(47,48)49)52-37(43)30-28-26-24-22-20-18-16-14-12-10-8-6-4-2/h34-35,38-41,44-46H,3-33H2,1-2H3,(H,47,48,49)/t34-,35-,38-,39+,40-,41+/m1/s1
InChI Key	RVUUQPKXGDTQPG-JUDHQOGESA-N
Canonical SMILES	CCCCCCCCCCCCCCCC(=O)OC[C@H](CO[C@@H]1[C@@H]([C@H]([C@@H]([C@H](O1)CS(=O)(=O)O)O)O)OC(=O)CCCCCCCCCCCCCCC
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	SQDG(16:0/16:0) can be used as a saturated standard for the structural and quantitative analysis of anionic sulfoquinovosyl diacylglycerols.
Storage	Store at -20°C.