

## Product Information

### SQDG(16:0/16:1(9Z))

**Cat. No.:** X26-02-ZQ277

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

**Compound CID:** 42607403

**Synonym:** 1-hexadecanoyl-2-(9Z-hexadecenoyl)-3-(6'-sulfo- $\alpha$ -D-quinovosyl)-sn-glycerol

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

#### Product Information

<b>Description</b>	A sulfoquinovosyl diacylglycerol containing one saturated C16 chain and one unsaturated 16:1(9Z) chain; exhibits balanced fluidity and structural stability.
<b>Molecular Weight</b>	793.1
<b>Molecular Formula</b>	C <sub>41</sub> H <sub>76</sub> O <sub>12</sub> S
<b>IUPAC Name</b>	[(2S,3S,6S)-6-[(2S)-3-hexadecanoyloxy-2-[(Z)-hexadec-9-enoyl]oxypropoxy]-3,4,5-trihydroxyoxan-2-yl]methanesulfonic acid
<b>InChI</b>	InChI=1S/C41H76O12S/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/h14,16,34-35,38-41,44-46H,3-13,15,17-33H2,1-2H3,(H,47,48,49)/b16-14-/t34-,35-,38-,39?,40?,41+/m1/s1
<b>InChI Key</b>	VDWVQLTYVQQUDC-KRAOQDQPSA-N
<b>Canonical SMILES</b>	CCCCCCCCCCCCCCCC(=O)OC[C@H](CO[C@@H]1C(C([C@@H]([C@H](O1)CS(=O)(=O)O)O)O)OC(=O)CCCCCCC/C=C\CCCCC
<b>Source</b>	Chemical synthesis
<b>Form</b>	Solid or liquid
<b>Purity</b>	≥90%
<b>Identity</b>	Confirmed by NMR/HPLC/MS.
<b>Stability</b>	The product is stable for one year when stored at the recommended temperature in lyophilized powder.
<b>Quality Level</b>	Research level
<b>Applications</b>	SQDG(16:0/16:1(9Z)) can be used for the investigation of unsaturation impacts on the phase transition behavior of acidic plant glycolipids.
<b>Storage</b>	Store at -20°C.