

## Product Information

### SQMG(16:0/0:0)

**Cat. No.:** X26-02-ZQ266

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

**Compound CID:** 101560606

**Synonym:** 1-hexadecanoyl-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 saturated monoacyl sulfoquinovosyl glycerol with a C16 palmitoyl chain at sn-1; a standard anionic glycolipid found in thylakoid-like membrane structures.
<b>Molecular Weight</b>	556.7
<b>Molecular Formula</b>	C <sub>25</sub> H <sub>48</sub> O <sub>11</sub> S
<b>IUPAC Name</b>	[(2S,3S,4S,5R,6S)-6-[(2S)-3-hexadecanoyloxy-2-hydroxypropoxy]-3,4,5-trihydroxyoxan-2-yl]methanesulfonic acid
<b>InChI</b>	InChI=1S/C25H48O11S/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/h19-20,22-26,28-30H,2-18H2,1H3,(H,31,32,33)/t19-,20-,22-,23+,24-,25+/m1/s1
<b>InChI Key</b>	PVPLOFLVMFDWJG-BIKTWNJESA-N
<b>Canonical SMILES</b>	CCCCCCCCCCCCCCCC(=O)OC[C@H](CO[C@@H]1[C@@H]([C@H]([C@@H]([C@H]([C@H](O1)CS(=O)(=O)O)O)O)O)O)O
<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>	SQMG(16:0/0:0) can be used to study the physical properties and membrane-binding affinity of palmitoyl-sulfoquinovosylglycerol in biophysical assays.
<b>Storage</b>	Store at -20°C.