

## Product Information

### DGMG(16:0/0:0)

**Cat. No.:** X26-02-ZQ263

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

**Compound CID:** 162881391

**Synonym:** 1-hexadecanoyl-3-O-(6'-O- $\alpha$ -D-galactosyl- $\beta$ -D-galactosyl)-sn-glycerol

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

#### Product Information

<b>Description</b>	A saturated sn-1 monoacyl digalactosyl glycerol featuring a palmitoyl (C16:0) chain; the molecule possesses a high headgroup-to-tail volume ratio due to the digalactose moiety.
<b>Molecular Weight</b>	654.8
<b>Molecular Formula</b>	C <sub>31</sub> H <sub>58</sub> O <sub>14</sub>
<b>IUPAC Name</b>	[(2S)-2-hydroxy-3-[(2R,3R,4S,5R,6R)-3,4,5-trihydroxy-6-[[[(2S,3R,4S,5R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxymethyl]oxan-2-yl]oxypropyl] hexadecanoate
<b>InChI</b>	InChI=1S/C31H58O14/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-23(34)41-17-20(33)18-42-30-29(40)27(38)25(36)22(45-30)19-43-31-28(39)26(37)24(35)21(16-32)44-31/h20-22,24-33,35-40H,2-19H2,1H3/t20-,21-,22-,24+,25+,26+,27+,28-,29-,30-,31+/m1/s1
<b>InChI Key</b>	OQWOKDQAPBSVGH-KFDGTCGFSA-N
<b>Canonical SMILES</b>	CCCCCCCCCCCCCCCC(=O)OC[C@H](CO[C@H]1[C@@H]([C@H]([C@H]([C@H](O1)CO[C@@H]2[C@@H]([C@H]([C@H]([C@H](O2)CO)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>	DGMG(16:0/0:0) can be used in colloid science to evaluate the interfacial organization of saturated digalactosylmonoacylglycerols.
<b>Storage</b>	Store at -20°C.