

## Product Information

### 1-hexadecanyl-2-((2'- $\alpha$ -glucosyl)- $\beta$ -glucosyl)-3- $\beta$ -xylosyl-sn-glycerol

**Cat. No.:** X26-02-ZQ247

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

**Compound CID:** 42607383

**Synonym:** 1-hexadecanyl-2-((2'- $\alpha$ -glucosyl)- $\beta$ -glucosyl)-3- $\beta$ -xylosyl-sn-glycerol

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

#### Product Information

|                          |  |
|--------------------------|--|
| <b>Description</b>       | A highly complex glycerolipid used for studying the organization and biosynthetic pathways of glycosylated membrane lipids in bacterial systems.   |
| <b>Molecular Weight</b>  | 772.9  |
| <b>Molecular Formula</b> | C <sub>36</sub> H <sub>68</sub> O <sub>17</sub>  |
| <b>IUPAC Name</b>        | (2S,5S,6R)-2-[(2R,5S,6R)-2-[(2R)-1-[(2S,3R,5S)-3,4-dihydroxy-5-(hydroxymethyl)oxolan-2-yl]oxy-3-hexadecoxypropan-2-yl]oxy-4,5-dihydroxy-6-(hydroxymethyl)oxan-3-yl]oxy-6-(hydroxymethyl)oxane-3,4,5-triol  |
| <b>InChI</b>             | InChI=1S/C36H68O17/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-47-20-22(21-48-34-31(45)28(42)25(19-39)50-34)49-36-33(30(44)27(41)24(18-38)52-36)53-35-32(46)29(43)26(40)23(17-37)51-35/h22-46H,2-21H2,1H3/t22-,23-,24-,25+,26-,27-,28?,29?,30?,31-,32?,33?,34+,35+,36-/m1/s1 |
| <b>InChI Key</b>         | FRVAWKFWIFVWBC-HFACWDTPSA-N  |
| <b>Canonical SMILES</b>  | CCCCCCCCCCCCCCCCOC[C@H](CO[C@@H]1[C@@H](C([C@@H](O1)CO)O)O)[C@H]2C(C([C@@H]([C@H](O2)CO)O)O)[C@H]3C(C([C@@H]([C@H](O3)CO)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>      | 1-hexadecanyl-2-((2'- $\alpha$ -glucosyl)- $\beta$ -glucosyl)-3- $\beta$ -xylosyl-sn-glycerol can be used for the study of glycan headgroup impacts on the self-assembly of glycosylglycerolipids.   |
| <b>Storage</b>           | Store at -20°C.  |



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