

Product Information

DGDG(18:2(9Z,12Z)/18:2(9Z,12Z)[15(R)OH-18:2(9Z,12Z)])

Cat. No.: X26-02-ZQ286

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

Compound CID: 52922093

Synonym: 1-(9Z,12Z-octadecadienoyl)-2-(15R-[9Z,12Z-octadecadienoyloxy]-9Z,12Z-octadecadienoyl)-3-(α-D-galactosyl-1-6-β-D-galactosyl)-sn-glycerol

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

Product Information

Description	A specialized digalactosyl diacylglycerol where one C18:2 chain is hydroxylated at the 15(R) position, adding a polar center within the hydrophobic region.
Molecular Weight	1219.7
Molecular Formula	C ₆₉ H ₁₁₈ O ₁₇
IUPAC Name	[(2S)-1-[(9Z,12Z)-octadeca-9,12-dienoyl]oxy-3-[(2R,5R,6R)-3,4,5-trihydroxy-6-[[[(2S,5R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxymethyl]oxan-2-yl]oxypropan-2-yl](9Z,12Z,15R)-15-[(9Z,12Z)-octadeca-9,12-dienoyl]oxyoctadeca-9,12-dienoate
InChI	InChI=1S/C69H118O17/c1-4-7-9-11-13-15-17-19-21-23-27-31-35-39-43-48-59(71)80-52-56(53-81-68-67(79)65(77)63(75)58(86-68)54-82-69-66(78)64(76)62(74)57(51-70)85-69)84-61(73)50-45-41-37-33-29-25-26-30-34-38-42-47-55(46-6-3)83-60(72)49-44-40-36-32-28-24-22-20-18-16-14-12-10-8-5-2/h13-16,19-22,26,30,38,42,55-58,62-70,74-79H,4-12,17-18,23-25,27-29,31-37,39-41,43-54H2,1-3H3/b15-13-,16-14-,21-19-,22-20-,30-26-,42-38-/t55-,56-,57-,58-,62+,63+,64?,65?,66?,67?,68-,69+/m1/s1
InChI Key	NPIXIKUSFQFHKK-QTKLTCRQSA-N
Canonical SMILES	CCCCC/C=C\C/C=C\CCCCCCCC(=O)OC[C@H](CO[C@H]1C(C([C@H]([C@H](O1)CO[C@@H]2C(C([C@H]([C@H](O2)CO)O)O)O)O)OC(=O)CCCCCCC/C=C\C/C=C\C[C@@H](CCC)OC(=O)CCCCCCC/C=C\C/C=C\CCCCC
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	DGDG(18:2(9Z,12Z)/18:2(9Z,12Z)[15(R)OH-18:2(9Z,12Z)] can be used to investigate the impact of hydroxylated acyl chains on the hydrogen-bonding network of digalactosyl lipids.
Storage	Store at -20°C.
