



C18:1 GalCer (d18:1/18:1(9Z))

Cat. No.:	OB0626WX-5051
Appearance:	Powder
Purity:	>99%
Size:	5 mg; 10 mg; 20 mg

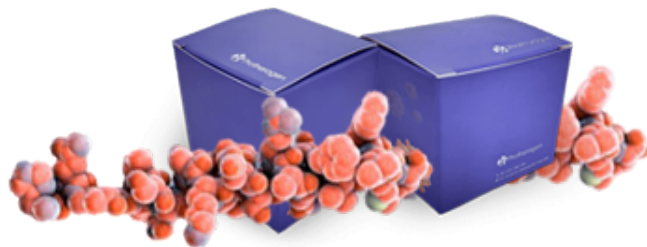
This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	C18:1 GalCer (d18:1/18:1(9Z)) is a galactosylceramide species containing an oleo yl fatty acyl chain. Galactosylceramides are important glycosphingolipids involv ed in membrane structure and specialized lipid domain formation. This lipid prov ides a research tool for investigating sphingolipid organization and biological functions associated with glycosphingolipid metabolism.
Synonyms	C18:1 β-D-galactosyl ceramide; N-(9Z-octadecenoyl)-1-β-galactosyl-sphing- 4-enine; GalCer(d18:1/18:1(9Z)); C18:1 Galactosyl(β) Ceramide (d18:1/18:1 (9Z)); D-galactosyl-β-1,1'-N-oleoyl-D-erythro-sphingosine; N-OLEOYL CEREB ROSIDE; 73039-25-5
CAS No.	73039-25-5
Compound CID	71308388
Formula	C ₄₂ H ₇₉ NO ₈
Formula Weight	726.079

Specification

Hygroscopic	Yes
Light Sensitive	No
IUPAC Name	(E)-N-[(E)-3-hydroxy-1-[3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxyoctadec-4-en-2-yl]octadec-9-enamide



InChI	InChI=1S/C42H79NO8/c1-3-5-7-9-11-13-15-17-18-20-22-24-26-28-30-32-38(46)43-35(34-50-42-41(49)40(48)39(47)37(33-44)51-42)36(45)31-29-27-25-23-21-19-16-14-12-10-8-6-4-2/h17-18,29,31,35-37,39-42,44-45,47-49H,3-16,19-28,30,32-34H2,1-2H3,(H,43,46)/b18-17+,31-29+
InChI Key	MVGFIPNJB NBHNC-LSUSWXEESA-N
Canonical SMILES	<chem>CCCCCCCCCCCC/C=C/C(C(COC1C(C(C(C(O1)CO)O)O)O)NC(=O)CCCCCCC/C=C/CCCCCCCC)O</chem>
Stability	1 year
Storage	Storage at -20°C.
Applications	C18:1 GalCer (d18:1/18:1(9Z)) serves as a reference compound for galactosylceramide analysis and glycosphingolipid profiling. It supports LC-MS/MS identification, quantitative lipid analysis, chromatographic method development, and structural characterization of sphingolipid species. C18:1 GalCer (d18:1/18:1(9Z)) facilitates research into glycosphingolipid composition and lipid metabolism.