



CER7-2'S,6R(d₉)

Cat. No.:	OB0626WX-5145
Appearance:	Powder
Purity:	>99%
Size:	1 mg; 2 mg; 5 mg; 10 mg

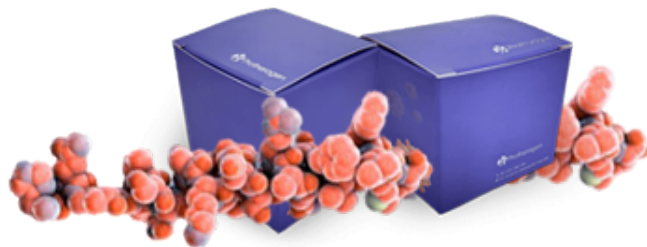
This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	CER7-2'S,6R(d ₉) is an isotopically labeled CER7 stereoisomer engineered for selective mass spectrometric detection without altering the fundamental ceramide structure.
Synonyms	N(2'-(S)-hydroxypalmitoyl(d ₉)) 6R-hydroxysphingosine; N (2S-OH 16:0-d ₉); 6R-OH sphingosine; 2260670-25-3
CAS No.	2260670-25-3
Compound CID	136212745
Formula	C ₃₄ H ₅₈ D ₉ NO ₅
Formula Weight	578.955

Specification

Hygroscopic	No
Light Sensitive	No
IUPAC Name	(2S)-13,13,14,14,15,15,16,16,16-nonadeuterio-2-hydroxy-N-[(E,2S,3R,6R)-1,3,6-trihydroxyoctadec-4-en-2-yl]hexadecanamide
InChI	InChI=1S/C34H67NO5/c1-3-5-7-9-11-13-15-16-18-20-22-24-26-33(39)34(40)35-31(29-36)32(38)28-27-30(37)25-23-21-19-17-14-12-10-8-6-4-2/h27-28,30-33,36-39H,3-26,29H2,1-2H3,(H,35,40)/b28-27+/t30-,31+,32-,33+/m1/s1/i1D3,3D2,5D2,7D2
InChI Key	FDCYWFADVRIZMH-OYEKWZFKSA-N
Canonical SMILES	[2H]C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])CCCCCCCC[C@@H](C(=O)N[C@@H](CO)[C@@H](/C=C/[C@@H](CCCCCCCCO)O)O

**Stability**

1 year

Storage

Storage at -20°C.

Applications

CER7-2'S,6R(d₉) is utilized as a deuterated reference compound for quantitative ceramide analysis and sphingolipid profiling. It supports internal standard applications, lipidomic method development, and structural characterization of ceramide species.