



C6 Biotin-Phytoceramide (t18:0/6:0)

Cat. No.:	OB0626WX-1278
Appearance:	Solid
Purity:	≥98%
Identity:	Confirmed by TLC and HPLC.
Size:	5 mg; 10 mg; 20 mg; 25 mg

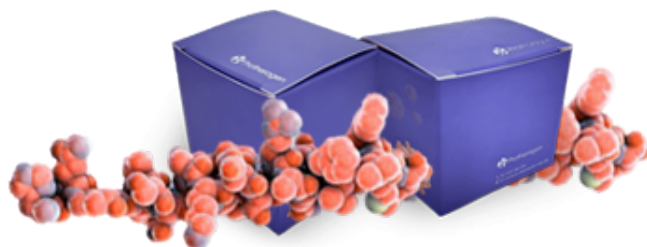
This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	C6 Biotin-Phytoceramide (t18:0/6:0) is a highly specialized affinity probe containing a short-chain phytoceramide backbone conjugated to a biotin ligand. This molecular configuration leverages the high-affinity biotin-streptavidin interaction, enabling researchers to seamlessly detect, capture, or immobilize target phytoceramide species during cell signaling assays, receptor-binding studies, and advanced pull-down evaluations.
Conjugation	Biotinylated
Synonyms	6-(5-((3aS,4S,6aR)-2-oxohexahydro-1H-thieno[3,4-d]imidazol-4-yl)pentanamido)-N-((2S,3S,4R)-1,3,4-trihydroxyoctadecan-2-yl)hexanamide; Biotin Ceramide (t18:0/6:0); Biotin Cer(t18:0/6:0); Biotin C6 Phytosphingosine (t18:0/6:0); N-hexanoyl-Biotin-Phytosphingosine
Formula	$C_{34}H_{64}N_4O_6S$
Formula Weight	657

Specification

InChI	InChI=1S/C34H64N4O6S/c1-2-3-4-5-6-7-8-9-10-11-12-14-19-28(40)33(43)26(24-39)36-31(42)22-15-13-18-23-35-30(41)21-17-16-20-29-32-27(25-45-29)37-34(44)38-32/h26-29,32-33,39-40,43H,2-25H2,1H3,(H,35,41)(H,36,42)(H2,37,38,44)/t26-,27-,28+,29-,32-,33-/m0/s1
InChI Key	FZLCAZUPZUKUJE-MWHXNUDOSA-N



Canonical SMILES

OC[C@H](NC(CCCCCNC(CCCC[C@@H]1SC[C@@](N2)([H])[C@]1([H])NC2=O)=O)[C@H](O)[C@H](O)CCCCCCCCCCCCC

Stability

1 year

Storage

Storage at -20°C.

Applications

C6 Biotin-Phytoceramide (t18:0/6:0) functions as a highly specific affinity-tagged sphingolipid probe designed for tracking real-time intracellular ceramide trafficking, identifying localized lipid-binding protein receptors, and isolating sphingolipid-enriched microdomains *via* avidin-biotin complexing protocols.