

C2 Phytoceramide (t18:0/2:0) Biochemical

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CATALOG #
AAA227193

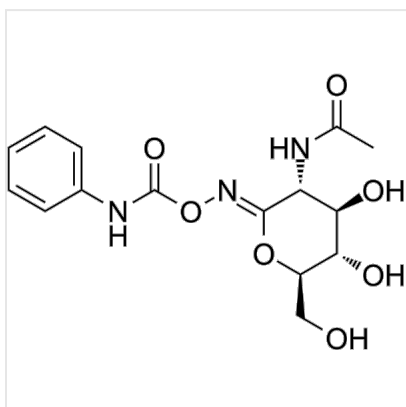
PRODUCT SYNONYMS

C2 Phytoceramide (t18:0/2:0); C2 Phytoceramide (t18:0/2:0) biochemical

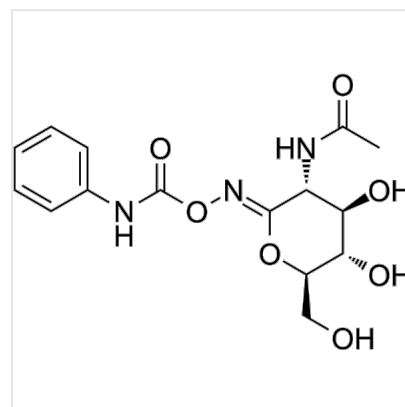
PRODUCT SPECIFICATIONS

Purity/Purification	98%
Solubility	Ethanol: Soluble
	Methanol: Soluble
	DMSO: Soluble
	<1mg/ml refers to the product slightly soluble or insoluble
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
Z)-PUGNAc, CAS 132489-69-1



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ADDITIONAL INFORMATION

Related Product Information for C2 Phytoceramide (t18:0/2:0) biochemical	C2 Phytoceramide is a bioactive semisynthetic sphingolipid that inhibits formyl peptide-induced oxidant release (IC ₅₀ = 0.38 μM) in suspended polymorphonuclear cells. It increases COX-2 protein levels 15-fold through ERK signaling. It induces death of keratinocytes (20% viability) with an ED ₅₀ value of 30 μM, the same concentration at which 35% of cells in a TUNEL assay are apoptotic. C2 Phytoceramide also has antiproliferative effects in CHO cells, with greater than 80% cytotoxicity achieved at a concentration of 20 μM, and induces internucleosomal DNA fragmentation. In addition, it inhibits the activation of phospholipase D (PLD) mediated by muscarinic acetylcholine receptors in vitro.
References	1. Perreira M, et al. Inhibition of O-GlcNAcase by PUGNAc is dependent upon the oxime stereochemistry. Bioorg Med Chem. 2006;14(3):837-846.

NCBI AND UNIPROT INFORMATION

Molecular Weight	353.331
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/biochemical/c2-phytoceramide-t180-20/227193>