

EOS (d18:1/32:1/18:2)

Chemical Properties

CAS No. : 1318771-31-1
 Formula: C₆₈H₁₂₇N_O₅
 Molecular Weight: 1038.766
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	EOS is a ceramide found in the outer layer of the epidermis in mammals. It is comprised of an ω -hydroxy very long-chain ceramide (C28-36) esterified to the essential fatty acid linoleic acid. The consecutive regio- and stereospecific oxygenation of the linoleate portion of EOS by 12(R)-lipoxygenase (12(R)-LO) and eLOX3 is essential for the maintenance of the epidermal barrier to prevent water loss. Following oxygenation, the oxidized linoleate is hydrolyzed, leaving the ω -hydroxy end of the very long-chain fatty acid to covalently bind the protein layer, forming the corneocyte lipid envelope and sealing the gap between the extracellular lipid lamellae and the cornified cell envelope of the corneocyte.
Targets(IC50)	Others

Solubility Information

Solubility	DMF: 0.15 mg/mL (0.14 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9627 mL	4.8134 mL	9.6268 mL
5 mM	0.1925 mL	0.9627 mL	1.9254 mL
10 mM	0.0963 mL	0.4813 mL	0.9627 mL
50 mM	0.0193 mL	0.0963 mL	0.1925 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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