
Product Data Sheet

Product Name: EOS (d18:1/30:0/18:2)

Cat. No.: GC43615

Chemical Properties

Cas. No. 97040-38-5

SMILES OCC(NC(CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCOC(CCCCCC/C=C\C/C=C\CCCCC)=O)=O)C(O)/C=C/CCCCCCCCCCCCFormula $C_{66}H_{125}NO_5$

M.Wt 1012.7

Solubility Chloroform: soluble,DMF: soluble,Methanol: soluble

Storage Store at -20°C

General For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock tips solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

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. EOS (d18:1/30:0/18:2) is a sphingolipid that has been found in intact and desquamated human stratum corneum as well as porcine epidermis.

Caution: Product has not been fully validated for medical applications. For research use only.

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