

Product Data Sheet

Product Name: all-cis-7,10,13,16,19-Docosapentaenoic Acid methyl ester

Cat. No.: GC40290

Chemical Properties

Cas. No. 108698-02-8

SMILES CC/C=C\C/C=C\C/C=C\C/C=C\C/C=C\CCCCC(OC)=O

Formula C₂₃H₃₆O₂ M.Wt 344.5

Solubility 0.1 M Na₂CO₃: 1 mg/ml, DMF: >100 mg/ml, DMSO: >100 mg/ml, Ethanol: Miscible
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock 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.



Background

Docosapentaenoic acid is an ω-3 fatty acid found in fish oils. It is a minor constituent of the total serum unsaturated fatty acids in humans, ranging from 0.1 to 1%, and increases on dietary supplementation. DPA methyl ester is a more lipid-soluble form of DPA. ω-3 and ω-6 fatty acids are typically analyzed using gas chromatography after their conversion to fatty acid methyl esters. In addition, the methyl ester form of DPA may serve as a prodrug, since it should facilitate uptake of DPA and then be hydrolyzed by esterases to generate the free acid after uptake into cells.

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

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