
Product Data Sheet

Product Name: 17-oxo-7(Z),10(Z),13(Z),15(E),19(Z)-Docosapentaenoic Acid
Cat. No.: GC41209

Chemical Properties

Cas. No. 1233715-33-7

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

Formula $C_{22}H_{32}O_3$ M.Wt 344.5

Solubility DMF: 15 mg/ml, DMSO: 10 mg/ml, Ethanol: 20 mg/ml 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.

Structure

Background

Docosapentaenoic acid (DPA) is a ω -3 fatty acid found in fish oils. 17-oxo-7(Z),10(Z),13(Z),15(E),19(Z)-docosapentaenoic acid is a metabolite of lipoxygenase-mediated oxidation of DPA that is produced endogenously by aspirin-enhanced COX-2 activity. It has been shown to activate Nrf2-dependent antioxidant gene expression, to act as a PPAR γ agonist (EC₅₀ = ~200 nM), and to inhibit pro-inflammatory cytokine and nitric oxide production at biological concentration ranges (5-25 μ M).

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

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