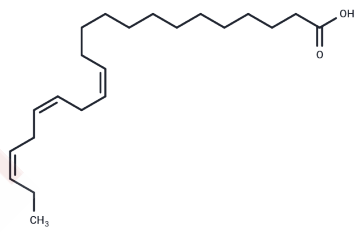
Data Sheet (Cat.No.T13661)

TargetMol

Docosatrienoic Acid

Chemical Properties



CAS No. : 28845-86-5

Formula: C22H38O2

Molecular Weight: 334.54

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	Docosatrienoic acid is a rare omega-3 fatty acid; Ki value is 5×M, which inhibits the binding of LTB4 to porcine neutrophil membrane.
Targets(IC50)	Others,Endogenous Metabolite
In vitro	Docosatrienoic acid inhibits the binding of LTB4 to porcine neutrophil membranes with 5 μM Ki.
In vivo	The application of docosaenoic acid can dose-dependently reduce the peak current amplitude of potassium ions on the membrane potential of all rats and accelerate the activation and inactivation mechanics of potassium.

Solubility Information

Solubility	Ethanol: 100 mg/mL (298.92 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9892 mL	14.9459 mL	29.8918 mL
5 mM	0.5978 mL	2.9892 mL	5.9784 mL
10 mM	0.2989 mL	1.4946 mL	2.9892 mL
50 mM	0.0598 mL	0.2989 mL	0.5978 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.

Reference

Yagaloff KA, et al. Essential fatty acids are antagonists of the leukotriene B4 receptor. Prostaglandins Leukot Essent Fatty Acids. 1995 May;52(5):293-7.

Krutetskaia ZI, et al. The effect of docosatrienoic acid on the potassium channels of outward rectification in the membrane of rat peritoneal macrophages. Fiziol Zh Im I M Sechenova. 1995 Jul;81(7):111-9.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481