

Nicodicosapent

Chemical Properties

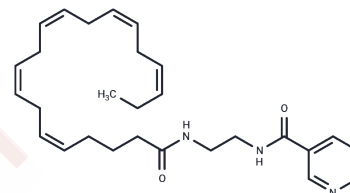
CAS No. : 1269181-69-2

Formula: C₂₈H₃₉N₃O₂

Molecular Weight: 449.63

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	Nicodicosapent is a fatty acid niacin conjugate and an inhibitor of the sterol regulatory element-binding protein (SREBP), which is a key regulator of cholesterol metabolism proteins such as PCSK9, HMG-CoA reductase, ATP citrate lyase, and NPC1L1.
Targets(IC50)	Others, Autophagy, Fatty Acid Synthase
In vitro	Nicodicosapent obviously suppresses ApoB secretion in a dose-dependent manner (IC ₅₀ : 27 μM). Nicodicosapent displays a synergistic inhibition on secreted PCSK9 (IC ₅₀ : 17 μM). Nicodicosapent reduces the production of mature SREBP-2 protein in HepG2 cells but does not interact with the GPR109A receptor. Nicodicosapent causes time-dependent hydrolysis in HepG2 cells.
In vivo	Nicodicosapent (100 mg/kg p.o.) produces high plasma levels of nicotinic acid in the plasma. ApoE*3-Leiden mice treated with Nicodicosapent display an obvious reduction in PCSK9 levels, LDL particles including VLDL and LDL cholesterol, and plasma triglycerides.

Solubility Information

Solubility	DMSO: 100 mg/mL (222.41 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 4 mg/mL (8.9 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2241 mL	11.1203 mL	22.2405 mL
5 mM	0.4448 mL	2.2241 mL	4.4481 mL
10 mM	0.2224 mL	1.112 mL	2.2241 mL
50 mM	0.0445 mL	0.2224 mL	0.4448 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

Vu CB, et al. Synthesis and Characterization of Fatty Acid Conjugates of Niacin and Salicylic Acid. J Med Chem. 2016 Feb 11;59(3):1217-31.

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