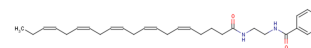


Nicodicosapent

Chemical Properties

CAS No.:	1269181-69-2
Formula:	C28H39N3O2
Molecular Weight:	449.63
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Nicodicosapent is a fatty acid niacin conjugate. It is also an inhibitor of the sterol regulatory element-binding protein (SREBP). The sterol regulatory element-binding protein (SREBP) is a key regulator of cholesterol metabolism proteins such as PCSK9, HMG-CoA reductase, ATP citrate lyase, and NPC1L1.
Targets(IC ₅₀)	Others: None
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) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.224 mL	11.12 mL	22.241 mL
5 mM	0.445 mL	2.224 mL	4.448 mL
10 mM	0.222 mL	1.112 mL	2.224 mL
50 mM	0.044 mL	0.222 mL	0.445 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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