

ELOVL1-IN-1

Chemical Properties

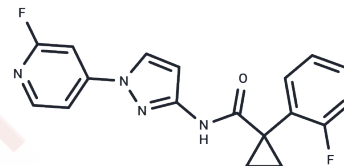
CAS No. : 2227482-41-7

Formula: C₁₈H₁₄F₂N₄O

Molecular Weight: 340.33

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	ELOVL1-IN-1 (1-(2-Fluorophenyl)-N-(1-(2-fluoropyridin-4-yl)-1H-pyrazol-3-yl)cyclopropane-1-carboxamide) is an ELOVL1 inhibitor. ELOVL1-IN-1 can reduce the levels of very long chain fatty acids. ELOVL1-IN-1 can be used in the study of adrenoleukodystrophy (ALD).
Targets(IC50)	Others
In vitro	Administration of 1 nM-10 μM ELOVL1-IN-1 for 48 h reduces the level of VLCFA, lysophosphatidylcholine (LPC) in adrenoleukodystrophy (ALD) patient fibroblasts and healthy human fibroblasts, ALD patient B-lymphocytes, and human microglia[1].
In vivo	Oral administration of ELOVL1-IN-1 reduces of a VLCFA level, specifically C26:0 LPC level in blood of ABCD1 knockout mice (0.5-64 mg/kg; 28 days), wild-type (WT) rats (30-300 mg/kg; 7 days), and cynomolgous monkeys (30 mg/kg; 7 days)[1].

Solubility Information

Solubility	DMSO: 250 mg/mL (734.58 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: 2 mg/mL (5.88 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	2.9383 mL	14.6916 mL	29.3832 mL
5 mM	0.5877 mL	2.9383 mL	5.8766 mL
10 mM	0.2938 mL	1.4692 mL	2.9383 mL
50 mM	0.0588 mL	0.2938 mL	0.5877 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

Charifson PS, et, al. 1,3-substitued pyrazole compounds useful for reduction of very long chain fatty acic levels. WO2018107056A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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