

ELOVL6-IN-4

Chemical Properties

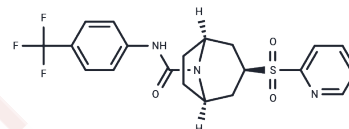
CAS No. : 1170321-92-2

Formula: C₂₀H₂₀F₃N₃O₃S

Molecular Weight: 439.45

Appearance:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	ELOVL6-IN-4 is a potent and selective long chain fatty acid elongase 6 (ELOVL6) inhibitor that is orally active, with IC ₅₀ values of 79 nM for human ELOVL6 and 94 nM for mouse ELOVL6. It demonstrates excellent selectivity over other human ELOVL subtypes (ELOVL1, -2, -3, and -5) and mouse ELOVL3 [1].
In vitro	ELOVL6-IN-4 (compound 1w) effectively reduces the elongation index in mouse hepatocytes H2.35, with an IC ₅₀ of 30 nM.
In vivo	ELOVL6-IN-4 (compound 1w; 1-10 mg/kg; oral administration, single dose) effectively and dose-dependently inhibits the elongation index in the liver of male C57BL/6J mice [1]. Dosage: 1 mg/kg, 3 mg/kg, and 10 mg/kg; Administration: Oral, single dose. Result: Significant inhibition of hepatic elongation index.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2756 mL	11.3779 mL	22.7557 mL
5 mM	0.4551 mL	2.2756 mL	4.5511 mL
10 mM	0.2276 mL	1.1378 mL	2.2756 mL
50 mM	0.0455 mL	0.2276 mL	0.4551 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

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