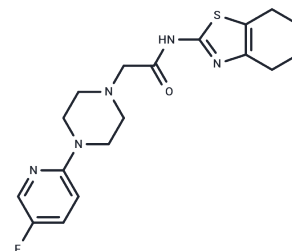


FATP1-IN-1

Chemical Properties

CAS No. : 1431945-95-7
 Formula: C₁₈H₂₂FN₅O₅
 Molecular Weight: 375.46
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	FATP1-IN-1 is a potent inhibitor of fatty acid transport protein 1 (FATP1). It effectively inhibits the activity of recombinant human or mouse acyl-CoA synthetase, which is essential for the function of FATP1. The inhibition is characterized by IC ₅₀ values of 0.046 μ M for human FATP1 and 0.60 μ M for mouse FATP1.
Targets(IC ₅₀)	Others
In vivo	FATP1-IN-1 administered orally (p.o.) at a dosage of 10 mg/kg demonstrated pharmacokinetic parameters with a maximum concentration (C max) of 5.5 μ g/mL, an area under the curve (AUC) of 36 μ g h/mL, and a time to reach maximum concentration (T max) of 0.33 hours. These results were attained in a mouse plasma [1] model and surpassed the IC 50 value of 0.22 μ M for mice, without accounting for plasma protein binding.

Solubility Information

Solubility	DMSO: 56.2 mg/mL (149.8 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6634 mL	13.317 mL	26.634 mL
5 mM	0.5327 mL	2.6634 mL	5.3268 mL
10 mM	0.2663 mL	1.3317 mL	2.6634 mL
50 mM	0.0533 mL	0.2663 mL	0.5327 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.

Reference

Matsufuji T, et al. Arylpiperazines as fatty acid transport protein 1 (FATP1) inhibitors with improved potency and pharmacokinetic properties. Bioorg Med Chem Lett. 2013;23(9):2560-2565.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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