

EST73502 hydrochloride

Chemical Properties

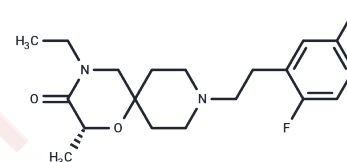
CAS No. : 2307458-82-6

Formula: C₁₉H₂₇ClF₂N₂O₂

Molecular Weight: 388.88

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	EST73502 hydrochloride is a selective, orally active and blood-brain barrier (BBB) penetrant dual μ -opioid receptor (MOR) agonist and σ 1 receptor (σ 1R) antagonist, with K_i s of 64 nM and 118 nM for MOR and σ 1R, respectively. EST73502 hydrochloride has antinociceptive activity with reduced opioid-induced relevant adverse events[1].
Targets(IC50)	Others,Opioid Receptor,Sigma receptor
In vivo	EST73502 hydrochloride administered orally (10-40 mg/kg) demonstrates a dose-dependent analgesic effect, achieving a peak reduction in pain of 64% with an Effective Concentration (EC 50) of 14 mg/kg in the paw pressure test on CD1 male mice [1]. Additionally, intraperitoneal injections of EST73502 hydrochloride (5 mg/kg; twice daily for 10 days) significantly mitigate mechanical allodynia caused by partial sciatic nerve ligation (PSNL) in these mice, showing a maximum efficacy of 56% [1]. This is observed in the same CD1 male mouse model using PSNL to simulate the condition [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5715 mL	12.8574 mL	25.7149 mL
5 mM	0.5143 mL	2.5715 mL	5.143 mL
10 mM	0.2571 mL	1.2857 mL	2.5715 mL
50 mM	0.0514 mL	0.2571 mL	0.5143 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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