Data Sheet (Cat.No.T39284)

TargetMol

EST73502 HCl

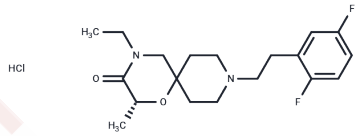
Chemical Properties

CAS No. : 2535970-65-9

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 is an agonist of μ-opioid receptor(Ki = 64 nM) agonist and an antagonist of σ1 receptor (Ki = 118 nM). EST73502 displays antinociceptive activity.
Targets(IC50)	Opioid Receptor
In vivo	In CD1 male mice, EST73502 (10-40 mg/kg; p.o.) shows a dose-response analgesic effect reaching a maximum of 64% and an EC50 of 14 mg/kg in the paw pressure test. EST73502 (5 mg/kg; i.p.) attenuated the expression of mechanical allodynia induced by PSNL, reaching a maximal effect of 56%[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (128.57 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

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.

Reference

Mónica García, et al. Discovery of EST73502, a Dual μ-Opioid Receptor Agonist and σ 1 Receptor Antagonist Clinical Candidate for the Treatment of Pain. J Med Chem. 2020 Oct 16.

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