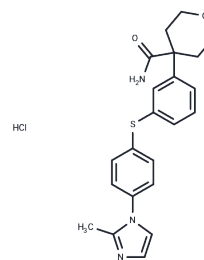


CJ-13,610 hydrochloride

Chemical Properties

CAS No. :	179420-27-0
Formula:	C ₂₂ H ₂₄ ClN ₃ O ₂ S
Molecular Weight:	429.96
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	CJ-13,610 hydrochloride is an orally active nonredox-type inhibitor of 5-LOX and can be used in studies about the prevention of untoward pathophysiological effects of LTs.
Targets(IC ₅₀)	Lipoxygenase
In vitro	In intact human polymorphonuclear leukocytes (PMNL), challenged with the Ca(2+)-ionophore A23187, CJ-13,610 hydrochloride potently suppressed 5-LOX product formation with an IC ₅₀ of 70 nM. In transfected HeLa cells, CJ-13,610 hydrochloride only slightly discriminated between phosphorylatable wild-type 5-LOX and a 5-LOX mutant that lacks phosphorylation sites[2].

Solubility Information

Solubility	DMSO: 45 mg/mL (104.66 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	2.3258 mL	11.629 mL	23.258 mL
5 mM	0.4652 mL	2.3258 mL	4.6516 mL
10 mM	0.2326 mL	1.1629 mL	2.3258 mL
50 mM	0.0465 mL	0.2326 mL	0.4652 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

Matthew Hutzler J, et al. In vitro-in vivo correlation and translation to the clinical outcome for CJ-13,610, a novel inhibitor of 5-lipoxygenase. Drug Metab Dispos. 2010 Jul;38(7):1113-21.

Fischer L, Steinhilber D, Werz O. Molecular pharmacological profile of the nonredox-type 5-lipoxygenase inhibitor CJ-13,610. Br J Pharmacol. 2004 Jul;142(5):861-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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