

CMI977

Chemical Properties

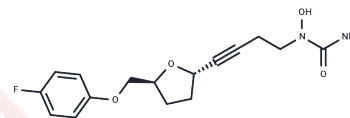
CAS No. : 175212-04-1

Formula: C₁₆H₁₉FN₂O₄

Molecular Weight: 322.33

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	CMI977 is a potent inhibitor of 5-Lipoxygenase (5-LO).
Targets(IC50)	Others,Lipoxygenase
In vitro	CMI977 is developed for the treatment of chronic asthma that intervenes in the production of leukotrienes. It is a single enantiomer with an all-trans (2S,5S) configuration. In the four isomers of CMI977, the S,S isomer is found to have the best biological activity.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1024 mL	15.5121 mL	31.0241 mL
5 mM	0.6205 mL	3.1024 mL	6.2048 mL
10 mM	0.3102 mL	1.5512 mL	3.1024 mL
50 mM	0.062 mL	0.3102 mL	0.6205 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

Xiong Cai, et al. Synthesis of CMI-977, a Potent 5-Lipoxygenase Inhibitor. Org. Proc. Res. Dev., 1999, 3 (1), pp 73-76.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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