

Montelukast

Chemical Properties

CAS No. : 158966-92-8

Formula: C₃₅H₃₆ClNO₃S

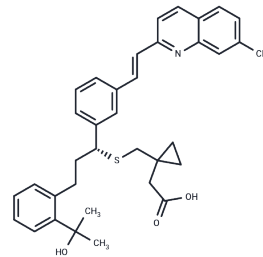
Molecular Weight: 586.18

Storage:

Keep away from direct sunlight, Keep away from moisture, Store at low temperature, The compound is unstable in solution. Please use soon

Powder: -20°C for 3 years

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Montelukast (Singular) is an orally available leukotriene receptor antagonist which is widely used for the prophylaxis and chronic treatment of asthma and has been linked to rare cases of clinically apparent liver injury.
Targets(IC50)	LTR, Leukotriene Receptor, Lipooxygenase

Solubility Information

Solubility	H ₂ O: 1.7 mM, Sonication is recommended. DMSO: 250 mg/mL (426.49 mM), The compound is unstable in solution. Please use soon. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 5 mg/mL (8.53 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.706 mL	8.5298 mL	17.0596 mL
5 mM	0.3412 mL	1.706 mL	3.4119 mL
10 mM	0.1706 mL	0.853 mL	1.706 mL
50 mM	0.0341 mL	0.1706 mL	0.3412 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

Zhang YJ, et al. Acta Pharmacol Sin. 2004 Oct;25(10):1341-6.

Chen X, Li C, Wang Z, et al. Computational screening of biomarkers and potential drugs for arthrofibrosis based on combination of sequencing and large nature language model. Journal of Orthopaedic Translation. 2024, 44: 102-113.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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