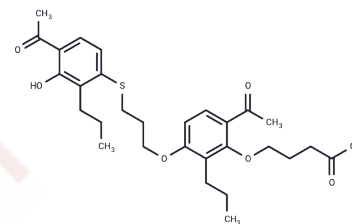


Tipelukast

Chemical Properties

CAS No. :	125961-82-2
Formula:	C ₂₉ H ₃₈ O ₇ S
Molecular Weight:	530.67
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Tipelukast (KCA 757) is a novel, orally available leukotriene receptor antagonist with anti-inflammatory properties, capable of reducing fibrosis and down-regulating TIMP-1 and type 1 collagen. Tipelukast is utilized in asthma research.
Targets(IC50)	Leukotriene Receptor
In vitro	Tipelukast inhibits the binding of [3H] LTD4 to the LTD4 receptors on the pulmonary cell membrane of guinea-pigs (IC50 = 2.3 μmol)[1].
In vivo	Fifteen minutes after an aerosolized antigen challenge, and inhaled 5 minutes later into the guinea pigs, Tipelukast significantly modifies the bronchoconstriction induced by UNDW[1]. Intravenous administration of Tipelukast (1 and 5 mg/kg) 15 minutes after antigen challenge dose-dependently reduces propranolol-induced bronchoconstriction (PIB) in guinea-pigs[1].

Solubility Information

Solubility	Ethanol: < 1 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8844 mL	9.4221 mL	18.8441 mL
5 mM	0.3769 mL	1.8844 mL	3.7688 mL
10 mM	0.1884 mL	0.9422 mL	1.8844 mL
50 mM	0.0377 mL	0.1884 mL	0.3769 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

Fujimura M, et al. Role of leukotrienes in post-allergic propranolol-induced bronchoconstriction in guinea-pigs. Clin Exp Allergy. 1997 Oct;27(10):1219-26.

Fujimura M, et al. No involvement of lipid mediators in a guinea pig model of ultrasonically nebulized distilled water-induced bronchoconstriction. Prostaglandins Other Lipid Mediat. 2000 Jan;60(1-3):49-58.

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