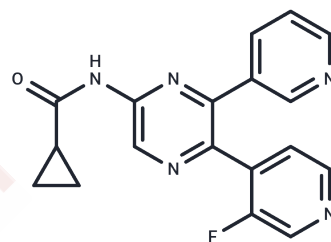


LAS101057

Chemical Properties

CAS No. : 925676-48-8
 Formula: C₁₈H₁₄FN₅O
 Molecular Weight: 335.34
 Storage: Store at low temperature
 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	LAS101057 is a novel orally available and potent and selective A2B receptor antagonist for the study of asthma.
Targets(IC50)	Adenosine Receptor
In vivo	At 3 mg/kg, LAS101057 effectively prevents Acetyl-β-methylcholine-induced airway hyperresponsiveness (AHR), and at 10 mg/kg, it inhibits AHR to levels similar to those achieved by 1 mg/kg of Hexadecadrol[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (298.2 mM),Sonication is recommended. H ₂ O: < 0.1 mg/mL (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (11.93 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	2.982 mL	14.9102 mL	29.8205 mL
5 mM	0.5964 mL	2.982 mL	5.9641 mL
10 mM	0.2982 mL	1.491 mL	2.982 mL
50 mM	0.0596 mL	0.2982 mL	0.5964 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

Paul Eastwood, et al. Discovery of LAS101057: A Potent, Selective, and Orally Efficacious A2B Adenosine Receptor Antagonist. ACS Med Chem Lett. 2011 Mar 10; 2(3): 213-218.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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