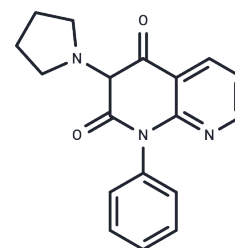


Pirodomast

Chemical Properties

CAS No. :	108310-20-9
Formula:	C ₁₈ H ₁₇ N ₃ O ₂
Molecular Weight:	307.35
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	Pirodomast is a thromboxane A (TXA ₂) synthase inhibitor. Pirodomast inhibits leukotriene (LT) D ₄ , C ₄ , E ₄ formation and thromboxane B ₂ (TXB ₂) activity, but is weakly or ineffectively antagonistic to guinea pig bronchospasm induced by histamine, methacholine, serotonin, LTC ₄ , or platelet-activating factor. Pirodomast is a potential antiallergic compound. Pirodomast had only weak relaxant activity on guinea pig trachea in vitro. Pirodomast is a potential antiallergic compound that inhibits the protein hydrolyzing activity of trypsin in vitro, prevents antigen-induced immediate and late asthmatic responses in allergic sheep in vivo, and inhibits antigen-induced airway hyperresponsiveness to histamine and carbachol in allergic sheep.
Targets(IC ₅₀)	Leukotriene Receptor, Serine Protease, Thrombin

Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble or slightly soluble) H ₂ O: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2536 mL	16.2681 mL	32.5362 mL
5 mM	0.6507 mL	3.2536 mL	6.5072 mL
10 mM	0.3254 mL	1.6268 mL	3.2536 mL
50 mM	0.0651 mL	0.3254 mL	0.6507 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

Mizushima Y, et al. Clinical potential of anti-thromboxane A2 agents in bronchial asthma. BioDrugs. 1997; 7(2): 91-98.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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