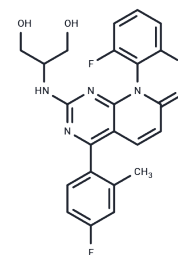


Dilmapimod

Chemical Properties

CAS No. :	444606-18-2
Formula:	C ₂₃ H ₁₉ F ₃ N ₄ O ₃
Molecular Weight:	456.42
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	Dilmapimod (SB-681323) is a potent inhibitor of p38 MAPK, potentially suppressing inflammation in chronic obstructive pulmonary disease.
Targets(IC50)	Autophagy,p38 MAPK
In vitro	p38 MAPK signaling potently inhibited by Dilmapimod, measured by inhibition of sorbitol-induced pHSP27 expression.

Solubility Information

Solubility	DMSO: 125 mg/mL (273.87 mM),Sonication is recommended. (< 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 (8.76 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	2.191 mL	10.9548 mL	21.9096 mL
5 mM	0.4382 mL	2.191 mL	4.3819 mL
10 mM	0.2191 mL	1.0955 mL	2.191 mL
50 mM	0.0438 mL	0.2191 mL	0.4382 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

Singh D, et al. A randomized, placebo-controlled study of the effects of the p38 MAPK inhibitor SB-681323 on blood biomarkers of inflammation in COPD patients. J Clin Pharmacol. 2010 Jan;50(1):94-100.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481