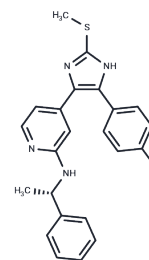


(S)-p38 MAPK Inhibitor III

Chemical Properties

CAS No. :	581098-48-8
Formula:	C ₂₃ H ₂₁ FN ₄ S
Molecular Weight:	404.5
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	(S)-p38 MAPK inhibitor III is a methylsulfanylimidazole that inhibits p38 MAP kinase (IC ₅₀ = 0.90 μM in vitro). It is cell-permeable, potently blocking the release of TNF-α and IL-1β from human peripheral blood mononuclear cells (IC ₅₀ s = 0.37 and 0.044 μM, respectively).
Targets(IC ₅₀)	Others,p38 MAPK

Solubility Information

Solubility	DMSO: 12 mg/mL (29.67 mM),Sonication is recommended. Ethanol: 30 mg/mL (74.17 mM),Sonication is recommended. Ethanol:PBS (pH 7.2)(1:2): 0.33 mg/mL (0.82 mM),Sonication is recommended. DMF: 20 mg/mL (49.44 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: 1 mg/mL (2.47 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	2.4722 mL	12.3609 mL	24.7219 mL
5 mM	0.4944 mL	2.4722 mL	4.9444 mL
10 mM	0.2472 mL	1.2361 mL	2.4722 mL
50 mM	0.0494 mL	0.2472 mL	0.4944 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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