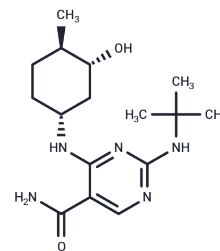


CC-90001

Chemical Properties

CAS No. : 1403859-14-2
 Formula: C₁₆H₂₇N₅O₂
 Molecular Weight: 321.42
 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	CC-90001 is an orally administered c-Jun N-terminal kinase (JNK) inhibitor with bias for JNK1 over JNK2.
Targets(IC50)	JNK
In vitro	CC-90001 is 12.9-fold more potent for JNK1 inhibition over JNK2 in knockout fibroblasts [1]. CC-90001 blocks LPS-induced c-jun phosphorylation (EC50 = 480 nM)[2].
In vivo	CC-90001 effectively mitigates lung fibrosis by significantly decreasing lung collagen metrics and lowering disease-induced α -SMA increases to nearly baseline levels in a house dust mite-induced lung fibrosis model. Moreover, when administered at a dosage of 3 mg/kg b.i.d., it hampers fibrosis development, evidenced by a notable reduction of 48% in collagen and 53% in α -smooth muscle actin (α -SMA) within a steatohepatitis model.

Solubility Information

Solubility	DMSO: 150 mg/mL (466.68 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 (12.44 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	3.1112 mL	15.556 mL	31.1119 mL
5 mM	0.6222 mL	3.1112 mL	6.2224 mL
10 mM	0.3111 mL	1.5556 mL	3.1112 mL
50 mM	0.0622 mL	0.3111 mL	0.6222 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

Kolb M, et, al. Therapeutic targets in idiopathic pulmonary fibrosis. *Respir Med.* 2017 Oct;131:49-57.

Bennett B, et, al. CC-90001, a Second Generation Jun N-Terminal Kinase (JNK) Inhibitor for the Treatment of Idiopathic Pulmonary Fibrosis. *American Journal of Respiratory and Critical Care Medicine* 2017; 195:A5409.

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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