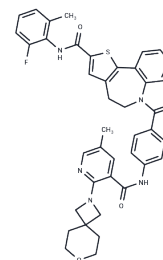


PC786

Chemical Properties

CAS No. :	1902114-15-1
Formula:	C41H38FN5O4S
Molecular Weight:	715.84
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	PC786 is a potent and selective non-nucleoside RSV L-protein polymerase inhibitor for inhalation therapy of RSV infections, with antiviral activity against RSV-A (IC ₅₀ =0.09-0.71 nM) and RSV-B (IC ₅₀ =1.3-50.6 nM), and the ability to inhibit RSV RNA-dependent RNA polymerase in HEp-2 cells (RdRp).
Targets(IC ₅₀)	RSV
In vitro	PC786 exhibits strong antiviral activity against RSV-A (IC ₅₀ : <0.09-0.71 nM) and RSV-B (IC ₅₀ : 1.3-50.6 nM) in HEp-2 cells, with no detectable cytotoxicity.[1] PCR analysis confirmed inhibition of RSV replication, and PC786 potently inhibited RSV RNA-dependent RNA polymerase (RdRp) activity in both a cell-free enzyme assay (IC ₅₀ : 2.1 nM) and a minigenome assay in HEp-2 cells (IC ₅₀ : 0.5 nM).[1]
In vivo	Treatment with PC786 (either intratracheal or intranasal; Once-daily on days-1 to 3), is found to inhibit viral loads in the lungs of RSV A2-infected BALB/c mice. The viral load is below the level of detection when the drug is given at 2 mg/mL (40 µg/mouse [approximately 1.6 mg/kg of body weight] for i.t. treatment, or 80 µg/mouse [approximately 3.2 mg/kg] for i.n. treatment)[1].

Solubility Information

Solubility	DMSO: 120 mg/mL (167.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 4 mg/mL (5.59 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	1.397 mL	6.9848 mL	13.9696 mL
5 mM	0.2794 mL	1.397 mL	2.7939 mL
10 mM	0.1397 mL	0.6985 mL	1.397 mL
50 mM	0.0279 mL	0.1397 mL	0.2794 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

Coates M, et al. Preclinical Characterization of PC786, an Inhaled Small-Molecule Respiratory Syncytial Virus L Protein Polymerase Inhibitor. *Antimicrob Agents Chemother.* 2017 Aug 24;61(9). pii: e00737-17.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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