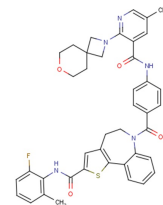


PC786

Chemical Properties

CAS No.:	1902114-15-1
Formula:	C ₄₁ H ₃₈ FN ₅ O ₄ S
Molecular Weight:	715.83
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	PC786 shows effective antiviral activity against RSV-A (IC ₅₀ <0.09 to 0.71 nM) and RSV-B (IC ₅₀ , 1.3 to 50.6 nM). PC786 is an inhaled respiratory syncytial virus L protein polymerase inhibitor.
Targets(IC ₅₀)	RSV-A: 0.09-0.71 nM RSV-B: 1.3-50.6 nM
In vitro	PC786 shows effective inhibition of cytopathic effect (CPE) induced by known RSV A clinical isolates (IC ₅₀ , 0.14 to 3.2 nM). PC786 also exhibits potent inhibition of CPE induced by various low-passage-number clinical isolates of RSV A (IC ₅₀ , 0.42 nM [median]) and RSV B (IC ₅₀ , 17.5 nM [median]). PC786 inhibits RSV A2 activity, exhibiting an IC ₅₀ and IC ₉₀ of 0.50±0.0014 nM and 0.63±0.035 nM, respectively. PC786 inhibits RSV B WST activity, exhibiting an IC ₅₀ and IC ₉₀ of 27.3±0.77 nM and 57.1±3.87 nM, respectively [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	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.397 mL	6.985 mL	13.97 mL
5 mM	0.279 mL	1.397 mL	2.794 mL
10 mM	0.14 mL	0.698 mL	1.397 mL
50 mM	0.028 mL	0.14 mL	0.279 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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

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