

Product Data Sheet

Product Name: PC786
Cat. No.: GC32300

Chemical Properties

Cas. No. 1902114-15-1

SMILES O=C(C(S1)=CC2=C1C3=CC=CC=C3N(C(C4=CC=C(NC(C5=CC(C)=CN=C5N6CC7(CC OCC7)C6)=O)C=C4)=O)CC2)NC8=C(C)C=CC=C8F

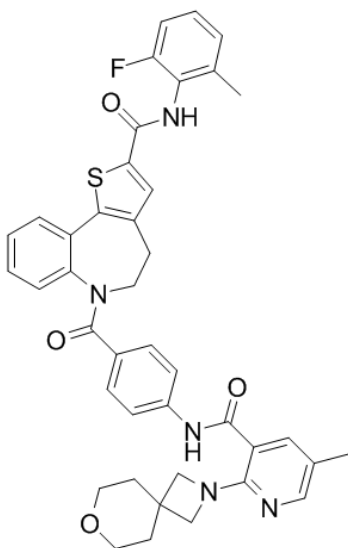
Formula $C_{41}H_{38}FN_5O_4S$ M.Wt 715.83

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

PC786 is an inhaled respiratory syncytial virus (RSV) L protein polymerase inhibitor. PC786 demonstrates potent antiviral activity against RSV-A (IC₅₀ <0.09 to 0.71 nM) and RSV-B (IC₅₀, 1.3 to 50.6 nM)[1].

PC786 demonstrates a potent and selective antiviral activity against laboratory-adapted or clinical

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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isolates of RSV-A (IC₅₀<0.09 to 0.71 nM) and RSV-B (IC₅₀, 1.3 to 50.6 nM), which are determined by inhibition of cytopathic effects in HEp-2 cells without causing detectable cytotoxicity. PC786 inhibits RSV A2 activity, exhibiting an IC₅₀ and IC₉₀ of 0.50±0.0014 nM and 0.63±0.035 nM, respectively. PC786 inhibits RSV B WST activity, exhibiting an IC₅₀ and IC₉₀ of 27.3±0.77 nM and 57.1±3.87 nM, respectively. PC786 exhibits potent inhibition of cytopathic effect (CPE) induced by known RSV A clinical isolates (IC₅₀, 0.14 to 3.2 nM). PC786 also exhibits potent inhibition of CPE induced by various low-passage-number clinical isolates of RSV A (IC₅₀, 0.42 nM [median]) and RSV B (IC₅₀, 17.5 nM [median])[1].

Once-daily treatment with PC786, on days-1 to 3, by either intratracheal (i.t.) or intranasal (i.n.) administration, 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].

[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.

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