

Product Name	: Presatovir
Synonyms	: GS-5806
Cat No.	: M22663
CAS Number	: 1353625-73-6
Molecular Formula	: C ₂₄ H ₂₉ ClN ₇ O ₃ S
Formula Weight	: 532.06
Chemical Name	: —
Description	<p>Presatovir (GS-5806) is a novel, orally bioavailable RSV fusion inhibitor (mean EC₅₀: 0.43 nM). Presatovir exhibits potent activity against a wide range of RSV A and B clinical isolates (mean EC₅₀: 0.43 nM). GS-5806 inhibits pre to post triggered conformational changes of RSV F protein, suggesting a possible mechanism for antiviral activity. In a cotton rat model of RSV infection, Presatovir demonstrates dose-dependent (0-30 mg/kg) antiviral efficacy. Oral bioavailability in preclinical species ranges from 46 to 100%, with penetration of the compound into the lung tissue demonstrated in Sprague-Dawley rats. Multidose oral treatment of Presatovir appears safe in adults, and in healthy human volunteers experimentally infected with RSV, a potent antiviral effect and reduction in disease severity are observed in the high dose group.</p>
Pathway	: Others
Target	: Other Targets
Receptor	: RSV
Solubility	: DMSO: 5 mg/mL (9.4 mM; Need ultrasonic and warming); Water: Insoluble
SMILES	: <chem>Cc1cn2nc(cc2nc1N1CC[C@H](N)C1)[C@@H]1CCCCN1C(=O)c1cc(Cl)ccc1NS(C)(=O)=O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Mackman RL, et al. Discovery of an oral respiratory syncytial virus (RSV) fusion inhibitor (GS-5806) and clinical proof of concept in a human RSV challenge study. J Med Chem. 2015 Feb 26;58(4):1630-1643.