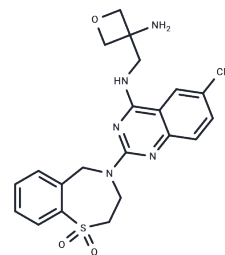


Ziresovir

Chemical Properties

CAS No. :	1422500-60-4
Formula:	C ₂₂ H ₂₅ N ₅ O ₃ S
Molecular Weight:	439.53
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Ziresovir (RO-0529) is a respiratory syncytial virus fusion protein (RSV F) inhibitor that inhibits RSV activity and can be used in the study of syncytial virus sensing.
Targets(IC50)	RSV
In vitro	With EC ₅₀ /EC ₉₀ values (μM) of 0.003/0.005 (WT), 2.1/10.0 (D486N), and >10/>10 (D489A), Ziresovir exhibits different efficacy in Wild Type (WT) and Mutant Strains RSV, respectively[1]. Inhibiting the RSV F protein-induced cell-cell fusion process, RO-0529 (100 nM; 4 d) suppresses the syncytia formation induced by the RSV F protein[1].
In vivo	Ziresovir (12.5 mg/kg, 50 mg/kg; p.o.; twice daily; 4 d) reduces RSV titer in the mouse lung[1]. With a single oral dose of 10 mg/kg, Ziresovir exhibits good exposure and 32% bioavailability in male Wistar-Han rats[1]. A single oral dose of 150 mg/kg results in higher lung distribution than plasma in CD-1 mice[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (227.52 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2752 mL	11.3758 mL	22.7516 mL
5 mM	0.455 mL	2.2752 mL	4.5503 mL
10 mM	0.2275 mL	1.1376 mL	2.2752 mL
50 mM	0.0455 mL	0.2275 mL	0.455 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.

Reference

Zheng X, et al. Discovery of Ziresovir as a Potent, Selective, and Orally Bioavailable Respiratory Syncytial Virus Fusion Protein Inhibitor. J Med Chem. 2019 Jul 11;62(13):6003-6014.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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