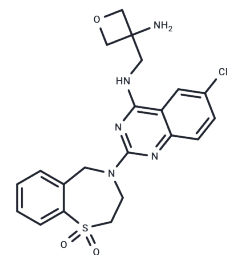


## Ziresovir

## Chemical Properties

CAS No. :	1422500-60-4
Formula:	C <sub>22</sub> H <sub>25</sub> N <sub>5</sub> O <sub>3</sub> S
Molecular Weight:	439.53
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## 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 <sub>50</sub> /EC <sub>90</sub> 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: 38 mg/mL (86.46 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.55 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

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	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

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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

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.

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