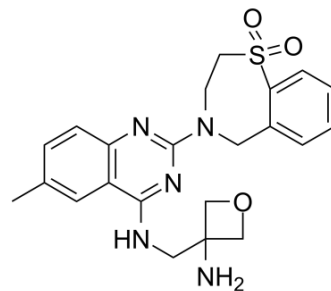


Ziresovir

Cat. No.:	HY-109142		
CAS No.:	1422500-60-4		
Molecular Formula:	C ₂₂ H ₂₅ N ₅ O ₃ S		
Molecular Weight:	439.53		
Target:	RSV		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (284.39 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2752 mL	11.3758 mL	22.7516 mL
	5 mM	0.4550 mL	2.2752 mL	4.5503 mL
	10 mM	0.2275 mL	1.1376 mL	2.2752 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (4.73 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (4.73 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (4.73 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Ziresovir (AK0529;RO-0529) is a potent, selective, and orally bioavailable respiratory syncytial virus (RSV) fusion (F) protein (RSV F) protein inhibitor. Ziresovir shows anti-RSV activity (EC₅₀=3 nM) and highlights pharmacokinetics in animal species^[1].

IC₅₀ & Target

EC₅₀: 3 nM (RSV F)^[1]

REFERENCES

[1]. 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.

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

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