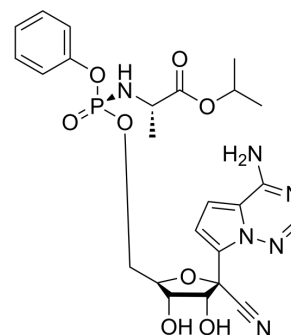


Anti-virus agent 1

Cat. No.:	HY-131233		
CAS No.:	1911578-83-0		
Molecular Formula:	C ₂₄ H ₂₉ N ₆ O ₈ P		
Molecular Weight:	560.5		
Target:	Antibiotic		
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 : 200 mg/mL (356.82 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.7841 mL	8.9206 mL	17.8412 mL
	5 mM	0.3568 mL	1.7841 mL	3.5682 mL
	10 mM	0.1784 mL	0.8921 mL	1.7841 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: 5 mg/mL (8.92 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 5 mg/mL (8.92 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 5 mg/mL (8.92 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Anti-virus agent 1 (compound 4i), a phosphoramidate proagent of GS-5734 (HY-104077; Remdesivir), has potent antiviral activity. Anti-virus agent 1 is used for the research of coronavirus and Ebola virus (EBOV)^{[1][2]}.

In Vitro

Anti-virus agent 1 (compound 4i) has antiviral activity for EBOV in HeLa cell (EC₅₀=1845 nM), HMVEC cell (TERT-immortalized human foreskin microvascular endothelial cells; ATCC-4025; EC₅₀=367 nM), human macrophages (EC₅₀=297 nM). Anti-virus agent 1 has a CC₅₀ of 21 μM in MT4 cell (human leukemia T-cell)^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Dustin Siegel , et al. Discovery and Synthesis of a Phosphoramidate Prodrug of a Pyrrolo[2,1-f][triazin-4-amino] Adenine C-Nucleoside (GS-5734) for the Treatment of Ebola and Emerging Viruses. J Med Chem. 2017 Mar 9;60(5):1648-1661.

[2]. Michael O' Neil Hanrahan Clarke, et al.Methods for treating arenaviridae and coronaviridae virus infections. US20170071964A1.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA