Anti-IAV agent 1

Cat. No.:	HY-151967
Molecular Formula:	C ₂₈ H ₂₈ FN ₉ O ₃
Molecular Weight:	557.58
Target:	Influenza Virus
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

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Description	Anti-IAV agent 1 (Compound (R)-1a) is an orally active anti-influenza A virus (IAV) agent with IC ₅₀ s of 0.03 and 0.06 μM again IAV H1N1 and Oseltamivir-resistant IAV H1N1 strains, respectively ^[1] .							
In Vivo		ound (R)-1a) (1.67-15 m ently confirmed the accu					$ice^{[1]}$.	
	Animal Model:	Kunming Mice lethal challenge model with H1N1 A/Puerto Rico/8/1934 virus $^{\left[1 ight]}$						
	Dosage:	1.67, 5 and 15 mg/kg						
	Administration:	Oral administration, twice daily for 7 days						
	Result:	Improved the survival rate.						
	Animal Model:	Balb/c mice ^[1]						
	Dosage:	25 mg/kg						
	Administration:	Oral administration (Pharmacokinetic Analysis)						
	Result:	PK property in Balb/c mice after a single oral administration of 25 mg/kg, n = 3.						
		Compd.	T _{1/2} (h)	T _{max} (h)	C _{max} (ng/mL)	AUC _{0-inf} (ng⊠h/mL)	^a hERG IR (n = 3)	
		Anti-IAV agent 1 (Compound (R)-1a)	5.84±0.63	0.33±0	866 ± 205	1913 ± 554	13.2 ± 2.87%	
		^a hERG ion chan _{max} , the time at			n = 3. Abbreviatior	,		



	_{0-inf} , area under the concentration-time curve up to infinite time; hERG, human Ether-a- gogo related gene.
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REFERENCES

[1]. Wu W, et al. Optimization and SAR research at the benzoxazole and tetrazole rings of JNJ4796 as new anti-influenza A virus agents, part 2. Eur J Med Chem. 2023 Jan 5;245(Pt 1):114906.

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