TTP-8307

Cat. No.:	HY-124806				
CAS No.:	950225-08-8				
Molecular Formula:	C ₂₇ H ₂₁ FN ₄ O				
Molecular Weight:	436.48				
Target:	Enterovirus; DNA/RNA Synthesis; HCV				
Pathway:	Anti-infection; Cell Cycle/DNA Damage				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	2 years		
		-20°C	1 year		
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SOLVENT & SOLUBILITY

Pre	DMSO : 100 mg/mL (2	229.11 mM; Need ultrasonic) Solvent Concentration	1 mg	5 mg	10 mg			
	Preparing Stock Solutions	1 mM	2.2911 mL	11.4553 mL	22.9106 mL			
		5 mM	0.4582 mL	2.2911 mL	4.5821 mL			
		10 mM	0.2291 mL	1.1455 mL	2.2911 mL			
	Please refer to the so	lubility information to select the app	propriate solvent.					
In Vivo		one by one: 10% DMSO >> 40% PE(/mL (5.73 mM); Suspended solution;		0 >> 45% saline				
Solubility: 2.5 r 3. Add each solve		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.73 mM); Suspended solution; Need ultrasonic						
		each solvent one by one: 10% DMSO >> 90% corn oil bility: ≥ 2.5 mg/mL (5.73 mM); Clear solution						

BIOLOGICAL ACTIVITY					
Description	TTP-8307 is a potent inhibitor of the replication of several rhino- and enteroviruses. TTP-8307 inhibits coxsackievirus B3 (CVB3; EC ₅₀ =1.2 μM) and poliovirus by interfering with the synthesis of viral RNA. TTP-8307 exerts antiviral activity through oxysterol-binding protein (OSBP) ^{[1][2]} .				
In Vitro	TTP-8307 targets the nonstructural protein 3A, inhibits the replication of coxsackievirus B3 (CVB3 Nancy) with EC ₅₀ of 1.2 μ M. TTP-8307 inhibits the replication of coxsackievirus B3 and the three poliovirus Sabin strains, as well as coxsackieviruses A16 and A21 (EC ₅₀ of 0.85 and 5.34 μM). TTP-8307 inhibits human rhinoviruses (HRVs) 2, 29, 39, 45, 63, and 85. Mutations in				

the nonstructural protein 3A confer resistance to the novel enterovirus replication inhibitor TTP-8307^[1]. TTP-8307 inhibits OSBP-dependent viruses encephalomyocarditis virus (EMCV) and HCV^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. De Palma AM, et al. Mutations in the nonstructural protein 3A confer resistance to the novel enterovirus replication inhibitor TTP-8307. Antimicrob Agents Chemother. 2009 May;53(5):1850-7.

[2]. Albulescu L, et al. Uncovering oxysterol-binding protein (OSBP) as a target of the anti-enteroviral compound TTP-8307. Antiviral Res. 2017 Apr;140:37-44.

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

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