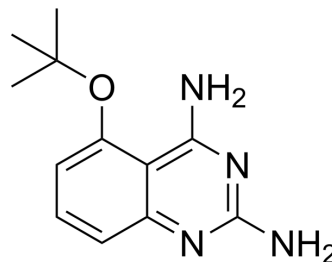


HZ-1157

Cat. No.:	HY-109571	
CAS No.:	1009734-33-1	
Molecular Formula:	C ₁₂ H ₁₆ N ₄ O	
Molecular Weight:	232.28	
Target:	HCV Protease; Flavivirus; Dengue virus	
Pathway:	Anti-infection; Metabolic Enzyme/Protease	
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 : 20 mg/mL (86.10 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	4.3051 mL	21.5257 mL	43.0515 mL
	5 mM	0.8610 mL	4.3051 mL	8.6103 mL
	10 mM	0.4305 mL	2.1526 mL	4.3051 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2 mg/mL (8.61 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2 mg/mL (8.61 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2 mg/mL (8.61 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	HZ-1157 inhibits HCV NS3/4A protease with an IC ₅₀ of 1.0 μmol/L. HZ-1157 (4a) has a high dengue virus inhibitory activity (EC ₅₀ = 0.15 μM) and is a relatively nontoxic (CC ₅₀ > 10 μM) dengue antiviral agent ^{[1][2]} .
IC₅₀ & Target	IC ₅₀ : 1.0 μmol/L (HCV NS3/4A protease) ^[2] .
In Vitro	HZ-1157 (4a) is known to possess a broad spectrum of biological activities, such as protein lysine methyltransferase G9a inhibition, SMN2 promoter activation, dihydrofolate reductase inhibition, and others ^{[1][2]} .

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

Cell Viability Assay^[2].

Cell Line:	HZ-1157 (4a) is known to possess a broad spectrum of biological activities, such as protein lysine methyltransferase G9a inhibition, SMN2 promoter activation, dihydrofolate reductase inhibition, and others.
Concentration:	0-10 $\mu\text{mol/L}$.
Incubation Time:	72 h.
Result:	Inhibited HCV infection in vitro with an IC_{50} of 0.82 $\mu\text{mol/L}$.

REFERENCES

[1]. Ye Yu, et al. Discovering Novel anti-HCV Compounds With Inhibitory Activities Toward HCV NS3/4A Protease. *Acta Pharmacol Sin.* 2014 Aug;35(8):1074-81.

[2]. Bo Chao, et al. Discovery and Optimization of 2,4-diaminoquinazoline Derivatives as a New Class of Potent Dengue Virus Inhibitors. *J Med Chem.* 2012 Apr 12;55(7):3135-43.

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

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