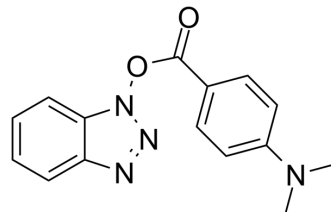


XP-59

Cat. No.:	HY-136284		
CAS No.:	890402-73-0		
Molecular Formula:	C ₁₅ H ₁₄ N ₄ O ₂		
Molecular Weight:	282.3		
Target:	SARS-CoV		
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 : 62.5 mg/mL (221.40 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.5423 mL	17.7117 mL	35.4233 mL
		5 mM	0.7085 mL	3.5423 mL	7.0847 mL
10 mM		0.3542 mL	1.7712 mL	3.5423 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: ≥ 6.25 mg/mL (22.14 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 6.25 mg/mL (22.14 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 6.25 mg/mL (22.14 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	XP-59 is a potent inhibitor of the SARS-CoV M ^{Pro} , with a K _i of 0.1 μM ^[1] .
IC₅₀ & Target	K _i : 0.1 nM (SARS-CoV M ^{Pro}) ^[1] .
In Vitro	<p>The SARS-CoV main proteinase (Mpro) plays a central role in the formation of the viral replicase/transcriptase complex and is thus an ideal target for the development of suitable drugs^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

CUSTOMER VALIDATION

- Nucleic Acids Res. 2021 Jan 8;49(D1):D1113-D1121.

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REFERENCES

[1]. Verschuere KH, et al., A structural view of the inactivation of the SARS coronavirus main proteinase by benzotriazole esters. Chem Biol. 2008 Jun;15(6):597-606.

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

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