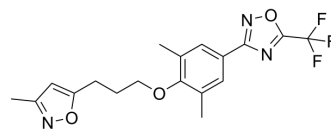


Pleconaril

Cat. No.:	HY-19952		
CAS No.:	153168-05-9		
Molecular Formula:	C ₁₈ H ₁₈ F ₃ N ₃ O ₃		
Molecular Weight:	381.35		
Target:	Enterovirus		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (262.23 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.6223 mL	13.1113 mL	26.2226 mL
				5 mM	0.5245 mL	2.6223 mL	5.2445 mL
10 mM				0.2622 mL	1.3111 mL	2.6223 mL	
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.56 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.56 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Pleconaril is a picornavirus capsid binding inhibitor that prevents attachment and/or virus uncoating. Pleconaril has potential for use in rhinoviruses and enteroviruses research ^{[1][2]} .
In Vitro	Pleconaril (0.4-50 μM, 2 days) produces substantial cytotoxicity at 50 μM concentrations in RD cells ^[2] . Pleconaril (0.001-4 μg/mL, 24 h) increases the cell viability of RD cells infected with EV71 ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Pleconaril (0.375-80 mg/kg, i.p., daily, 5 days) increases the number of viable mice infected with EV71 ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Lee JS, et al. Antiviral Activity of Itraconazole against Echovirus 30 Infection In Vitro. *Osong Public Health Res Perspect*. 2017 Oct;8(5):318-324.
- [2]. Zhang G, et al. In vitro and in vivo evaluation of ribavirin and pleconaril antiviral activity against enterovirus 71 infection. *Arch Virol*. 2012 Apr;157(4):669-79.
- [3]. Benschop KS, et al. Genetic and antigenic structural characterization for resistance of echovirus 11 to pleconaril in an immunocompromised patient. *J Gen Virol*. 2015 Mar;96(Pt 3):571-9.
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Caution: Product has not been fully validated for medical applications. For research use only.

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