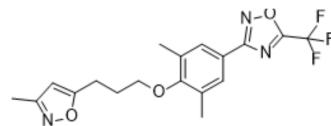


## Pleconaril

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



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (262.23 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	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.						
<b>In Vivo</b>	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

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

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## REFERENCES

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- [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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