Pleconaril

Cat. No.: HY-19952

CAS No.: 153168-05-9

Molecular Formula: $C_{18}H_{18}F_3N_3O_3$

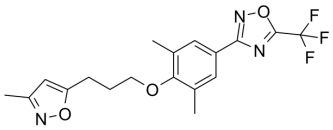
Molecular Weight: 381.35

Target: Enterovirus

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 : 100 mg/mL (262.23 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	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 capsid inhibitor used previously to treat enterovirus infections. Pleconaril is effective in inhibiting replication with an IC50 of 50 nM.Target: enterovirusPleconaril is a capsid inhibitor designed to dock within a hydrophobic pocket formed by the capsid proteins VP1, VP3 and VP2. Pleconaril leads to stiffening of the capsid structure,preventing RNA release into the cell. Pleconaril has been used as treatment on a compassionateuse basis in neonates and immunodeficient patients with severe EV infections.

REFERENCES

[1]. 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.

[2]. Lacroix C, et al. http://www.ncbi.nlm. In vitro characterisation of a pleconaril/pirodavir-like compound with potent activity against rhinoviruses. Virol J. 2015 Jul 14;12:106.

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

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