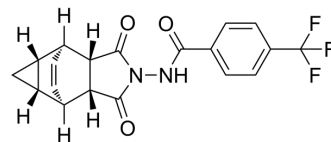


## Tecovirimat

Cat. No.:	HY-14805		
CAS No.:	869572-92-9		
Molecular Formula:	C <sub>19</sub> H <sub>15</sub> F <sub>3</sub> N <sub>2</sub> O <sub>3</sub>		
Molecular Weight:	376.33		
Target:	Arenavirus; Orthopoxvirus		
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 (265.72 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.6572 mL	13.2862 mL	26.5724 mL
		5 mM	0.5314 mL	2.6572 mL	5.3145 mL
10 mM		0.2657 mL	1.3286 mL	2.6572 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 (6.64 mM); Suspended solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.64 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Tecovirimat(ST-246) is an orally bioavailable antipoxvirus compound; potent and selective active against multiple orthopoxviruses with EC <sub>50</sub> about 10 nM. Tecovirimat could be used in the study for orthopoxvirus-induced diseases.
-------------	---

### REFERENCES

- [1]. Andrew T Russo, et al. An overview of tecovirimat for smallpox treatment and expanded anti-orthopoxvirus applications. *Expert Rev Anti Infect Ther.* 2021 Mar;19(3):331-344.
- [2]. Yang G, et al. An orally bioavailable antipoxvirus compound (ST-246) inhibits extracellular virus formation and protects mice from lethal orthopoxvirus Challenge. *J*

---

Viol. 2005 Oct;79(20):13139-49.

[3]. Quenelle DC, et al. Efficacy of delayed treatment with ST-246 given orally against systemic orthopoxvirus infections in mice. Antimicrob Agents Chemother. 2007 Feb;51(2):689-95.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA