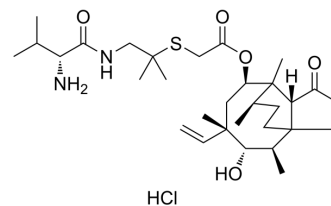


## Valnemulin hydrochloride

<b>Cat. No.:</b>	HY-B0027
<b>CAS No.:</b>	133868-46-9
<b>Molecular Formula:</b>	C <sub>31</sub> H <sub>53</sub> ClN <sub>2</sub> O <sub>5</sub> S
<b>Molecular Weight:</b>	601.28
<b>Target:</b>	Bacterial; Antibiotic
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (166.31 mM)  
 H<sub>2</sub>O : 100 mg/mL (166.31 mM; Need ultrasonic)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	1.6631 mL	8.3156 mL	16.6312 mL
	5 mM	0.3326 mL	1.6631 mL	3.3262 mL	
	10 mM	0.1663 mL	0.8316 mL	1.6631 mL	

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 100 mg/mL (166.31 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (4.16 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (4.16 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (4.16 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Valnemulin hydrochloride is a pleuromutilin antibiotic which inhibits protein synthesis in bacteria by binding the peptidyl transferase enzyme in the 50s ribosomal subunit.

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## CUSTOMER VALIDATION

- Cell Rep. 2023 Mar 20;42(3):112275.
- J Biol Chem. 2021, 100525.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

[1]. L. Stipkovits, et al. The efficacy of valnemulin (Econor®) in the control of disease caused by experimental infection of calves with Mycoplasma bovis. Research in Veterinary Science, Volume 78, Issue 3, June 2005, Pages 207–215.

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

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