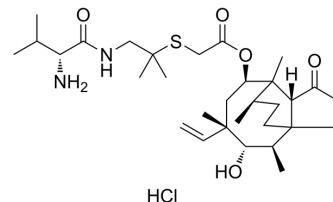


Valnemulin hydrochloride

Cat. No.:	HY-B0027
CAS No.:	133868-46-9
Molecular Formula:	C ₃₁ H ₅₃ ClN ₂ O ₅ S
Molecular Weight:	601.28
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	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)
H₂O : 100 mg/mL (166.31 mM; Need ultrasonic)
* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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

1. Add each solvent one by one: PBS
Solubility: 100 mg/mL (166.31 mM); Clear solution; Need ultrasonic
2. 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
3. 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
4. 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.

CUSTOMER VALIDATION

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

See more customer validations on www.MedChemExpress.com

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.

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

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