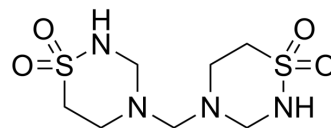


## Taurolidine

<b>Cat. No.:</b>	HY-W011522		
<b>CAS No.:</b>	19388-87-5		
<b>Molecular Formula:</b>	C <sub>7</sub> H <sub>16</sub> N <sub>4</sub> O <sub>4</sub> S <sub>2</sub>		
<b>Molecular Weight:</b>	284.35		
<b>Target:</b>	Bacterial; Apoptosis; Antibiotic		
<b>Pathway:</b>	Anti-infection; Apoptosis		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 62.5 mg/mL (219.80 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.5168 mL	17.5840 mL	35.1679 mL
	5 mM	0.7034 mL	3.5168 mL	7.0336 mL
	10 mM	0.3517 mL	1.7584 mL	3.5168 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (7.31 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (7.31 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (7.31 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Taurolidine is a broad-spectrum antimicrobial for the prevention of central venous catheter-related infections. Taurolidine has a direct and selective antineoplastic effect on brain tumor cells by the induction of apoptosis<sup>[1]</sup>.

### REFERENCES

- [1]. Haro C, et al. Taurolidine, an antiseptic for the prevention of central venous catheter-related infections. Rev Chilena Infectol. 2019 Aug;36(4):414-420.

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

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