Taurolidine

Cat. No.: HY-W011522

CAS No.: 19388-87-5

Molecular Formula: $C_7H_{16}N_4O_4S_2$

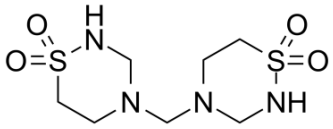
Molecular Weight: 284.35

Target: Bacterial; Apoptosis; Antibiotic

Pathway: Anti-infection; Apoptosis

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

Preparing Stock Solutions

Solvent / Mass / Concentration	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

1. 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
2. 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
3. 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[1].

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.

[2]. Stendel R, et al. Treatment of glioblastoma with intravenous taurolidine. First clinical experience. Anticancer Res. 2004 Mar-Apr;24(2C):1143-7.

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