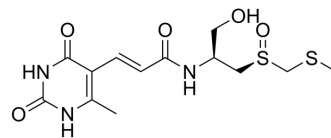


Sparsomycin

Cat. No.:	HY-137911
CAS No.:	1404-64-4
Molecular Formula:	C ₁₃ H ₁₉ N ₃ O ₅ S ₂
Molecular Weight:	361.44
Target:	Bacterial
Pathway:	Anti-infection
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 1 mg/mL (2.77 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.7667 mL	13.8336 mL	27.6671 mL
5 mM	---	---	---
10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description

Sparsomycin is a metabolite of the bacterium *Streptomyces sparsogenes*. Sparsomycin inhibits protein synthesis in both eukaryotic cells and bacteria. Sparsomycin inhibits the translation extension of ribosome PTC^[1].

REFERENCES

- [1]. Codjo H, et, al. COVID-19: Mechanisms of the Antiviral Activities of Selective Antibiotics Targeting the Human 80S Ribosome. 2021;15:38-52.
- [2]. Lazaro E, et, al. Interaction of the antibiotic sparsomycin with the ribosome. Antimicrob Agents Chemother. 1991 Jan;35(1):10-3.

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

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