Mycaminosyltylonolide

Cat. No.: HY-N11422

CAS No.: 61257-02-1

Molecular Formula: $C_{31}H_{51}NO_{10}$

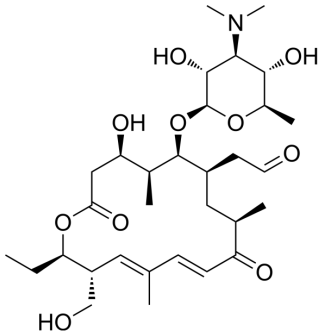
Molecular Weight: 597.74

Target: Antibiotic; Bacterial

Pathway: Anti-infection

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (167.30 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.6730 mL	8.3648 mL	16.7297 mL
	5 mM	0.3346 mL	1.6730 mL	3.3459 mL
	10 mM	0.1673 mL	0.8365 mL	1.6730 mL

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

BIOLOGICAL ACTIVITY

Description

Mycaminosyltylonolide is a potent antibiotic. Mycaminosyltylonolide shows antibacterial activity. Mycaminosyltylonolide inhibits luciferase synthesis[1][2].

In Vitro

Mycaminosyltylonolid (3 μM) inhibits firefly luciferase mRNA translation in E. coli S30[1].

Mycaminosyltylonolid (0-128 μg/mL) shows antibacterial activity with MIC values of 1, 1, 2, 2, 1, 64 μg/mL for S. aureus FDA209Pa, S. aureus Smitha, S. aureus KUB857c, S. epidermidis KUB795g, E. faecalis ATCC29212h, K. pneumoniae NCTC9632h, respectively[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Shishkina A, et al. Conjugates of amino acids and peptides with 5-o-mycaminosyltylonolide and their interaction with the ribosomal exit tunnel. Bioconjug Chem. 2013 Nov 20;24(11):1861-9.

[2]. Sugawara A, et al. 5-O-Mycaminosyltylonolide antibacterial derivatives: design, synthesis and bioactivity. J Antibiot (Tokyo). 2017 Jul;70(8):878-887.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA