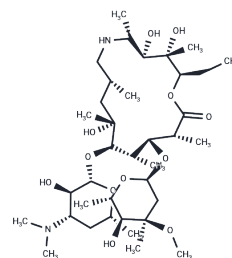


Azathramycin

Chemical Properties

CAS No. :	76801-85-9
Formula:	C37H70N2O12
Molecular Weight:	734.96
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Azathramycin (Desmethyl Azithromycin) is an antibiotic derived from erythromycin, binding to the 50S subunit of the bacterial ribosome, and thus inhibits translation of mRNA.
Targets(IC50)	Antibacterial,Antibiotic
Cell Research	THP-1 cells (106 cells in 1 mL RPMI medium, without antibiotics, growth factors or serum) are seeded in each well of 24-well plates and allowed to settle for 1 hour. Next, 50 μ L of the test compound is added followed by 50 μ L of LPS (final concentration of 10 μ g/mL). After 24h (37°C and 5% CO2) the supernatants and cell pellets are collected (1200 rpm, 5 min). THP-1 cell viability is tested using 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide (MTT). MTT is dissolved at 2 mg/mL in PBS and aliquots are stored at -20°C. The MTT assay is performed according to the suppliers instructions. Absorbance of MTT converted into formazan is measured at a wavelength of 570 nm with background subtraction at 630 nm.

Solubility Information

Solubility	DMSO: 7.35 mg/mL (10 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3606 mL	6.8031 mL	13.6062 mL
5 mM	0.2721 mL	1.3606 mL	2.7212 mL
10 mM	0.1361 mL	0.6803 mL	1.3606 mL
50 mM	0.0272 mL	0.1361 mL	0.2721 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Noedl H, et al. Antimicrob Agents Chemother. 2007 Feb;51(2):651-6.

Li H, Li J, Li J, et al. Carrimycin inhibits coronavirus replication by decreasing the efficiency of programmed-1 ribosomal frameshifting through directly binding to the RNA pseudoknot of viral frameshift-stimulatory element. Acta Pharmaceutica Sinica B.2024

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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