

Azithromycin (hydrate)

Catalog No: tcsc2962



Available Sizes

Size: 50mg

Size: 100mg



Specifications

CAS No: 117772-70-0

Formula: $C_{38}H_{76}N_2O_{14}$

Pathway: Anti-infection;Autophagy

Target: Bacterial;Autophagy

Form: Powder White Solid

Purity / Grade: 99%

Solubility: DMSO : 360 mg/mL (458.6 mM)
Water : Insoluble

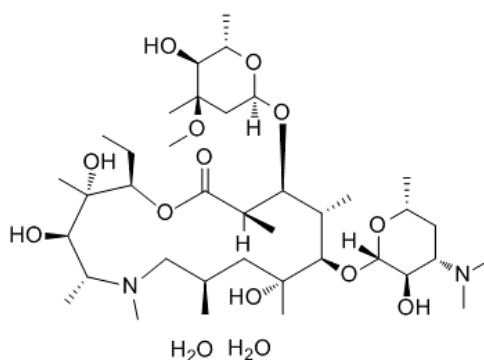
Storage Instruction: Powder : -20°C for 3 years
In solvent : -80°C for 12 months

Alternative Names: CP-62993 dihydrate

Observed Molecular Weight: 785.02

Product Description

Azithromycin hydrate is a macrolide antibiotic useful for the treatment of a number of bacterial infections. In Vitro: Azithromycin (2 μ M) augments rhinovirus-induced IFN β expression in primary bronchial epithelial cells from asthmatics, which is associated with over-expression of RIG-I like receptors and repression of viral replication. Knockdown of MDA5, but not knockdown of RIG-I, diminishes azithromycin (2 μ M)-enhanced viral-induced IFN β expression in asthmatic primary bronchial epithelial cells[1]. Azithromycin specifically reduces MMP-9 mRNA and protein levels without affecting NF- κ B in endotoxin-challenged monocytic THP-1 cells[2]. In Vivo: Azithromycin (50 mg/kg) has no effect on bronchoalveolar lavage inflammatory parameters and LDH levels in a mouse model of asthma exacerbation. Azithromycin induces neither general inflammatory parameters nor LDH release in a mouse model of asthma exacerbation, and augments expression of interferon-stimulated genes and the pattern recognition receptor MDA5 but not RIG-I in exacerbating mice[1].



Protocol

Preparing Stock Solutions	Volume Concentration	Mass	1 mg	5 mg	10 mg
	1mM		1.2739 mL	6.3693 mL	12.7385 mL
	5mM		0.2548 mL	1.2739 mL	2.5477 mL
	10mM		0.1274 mL	0.6369 mL	1.2739 mL

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!