

Azithromycin

Catalog No: tcsc2308

Available Sizes

Size: 50mg

Size: 100mg

Size: 200mg

Size: 500mg

Specifications

CAS No:

83905-01-5

Formula:

 $C_{38}H_{72}N_2O_{12}$

Pathway: Anti-infection;Autophagy

Target: Bacterial;Autophagy

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 100 mg/mL (133.51 mM); H2O :

Alternative Names:

CP 62993

Observed Molecular Weight:

748.98

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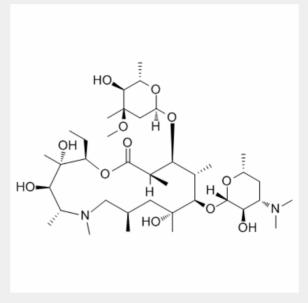


Product Description

Azithromycin 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].



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