Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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 : Insoluable

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

Alternative Names:
CP-62993 dihydrate

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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 μM) augments rhinovirus-induced IFNβ 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 μM)-enhanced viral-induced IFNβ expression in asthmatic primary bronchial epithelial cells[1]. Azithromycin specifically reduces MMP-9 mRNA and protein levels without affecting NF-κB 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].