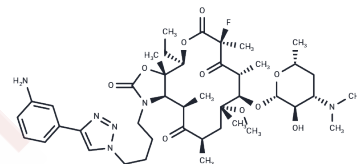


Solithromycin

Chemical Properties

CAS No. :	760981-83-7
Formula:	C43H65FN6O10
Molecular Weight:	845.01
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Solithromycin (OP-1068) is an orally bioavailable antimicrobial agent that inhibits cell viability, protein synthesis, and growth rate of Streptococcus pneumoniae, Staphylococcus aureus, Staphylococcus aureus, and Haemophilus influenzae with IC50 values of 7.5 ng/mL, 40 ng/mL, and 125 ng/mL, respectively. Solithromycin inhibits protein biosynthesis by binding to the large 50S subunit of the ribosome.
Targets(IC50)	Antibacterial, Antibiotic

Solubility Information

Solubility	DMSO: 135 mg/mL (159.76 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (2.37 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1834 mL	5.9171 mL	11.8342 mL
5 mM	0.2367 mL	1.1834 mL	2.3668 mL
10 mM	0.1183 mL	0.5917 mL	1.1834 mL
50 mM	0.0237 mL	0.1183 mL	0.2367 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kobayashi Y, et al. Br J Pharmacol. 2013 Jul;169(5):1024-34.

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