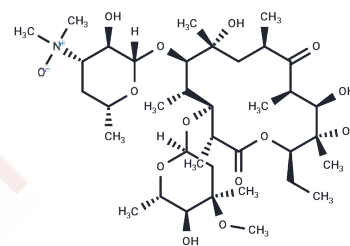


Erythromycin A N-oxide

Chemical Properties

CAS No. :	992-65-4
Formula:	C37H67NO14
Molecular Weight:	749.93
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Erythromycin A N-oxide is a potential impurity found in commercial preparations of erythromycin. Erythromycin is a macrolide antibiotic that inhibits bacterial protein synthesis by targeting the 50S ribosomal subunit, blocking the progression of nascent polypeptide chains. It is effective against a host of bacterial genera, including Streptococcus, Staphylococcus, and Haemophilus (MIC90s = 0.015-2.0 mg/l). Erythromycin is known to potently inhibit the cytochrome P450 isoform CYP3A4, which can affect the metabolism of numerous clinically relevant medications. Erythromycin A N-oxide is also a precursor in the synthesis of clarithromycin .
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: Soluble DMF: Soluble Ethanol: Soluble Methanol: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3335 mL	6.6673 mL	13.3346 mL
5 mM	0.2667 mL	1.3335 mL	2.6669 mL
10 mM	0.1333 mL	0.6667 mL	1.3335 mL
50 mM	0.0267 mL	0.1333 mL	0.2667 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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