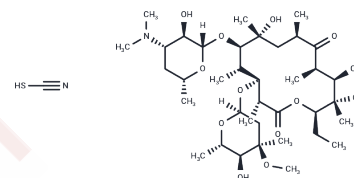


Erythromycin thiocyanate

Chemical Properties

CAS No. :	7704-67-8
Formula:	C ₃₈ H ₆₈ N ₂ O ₁₃ S
Molecular Weight:	793.02
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 thiocyanate acts by binding to bacterial 50S ribosomal subunits and inhibits RNA-dependent protein synthesis by blockage of transpeptidation and/or translocation reactions, without affecting synthesis of nucleic acid. Erythromycin thiocyanate is a macrolide antibiotic produced by actinomycete <i>Streptomyces erythreus</i> with a broad spectrum of antimicrobial activity.
Targets(IC50)	Antibacterial, Antibiotic, DNA/RNA Synthesis
In vitro	Erythromycin inhibits growth of <i>P. falciparum</i> with IC ₅₀ and IC ₉₀ values of 58.2 μM and 104.0 μM, respectively.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.261 mL	6.305 mL	12.610 mL
5 mM	0.2522 mL	1.261 mL	2.522 mL
10 mM	0.1261 mL	0.6305 mL	1.261 mL
50 mM	0.0252 mL	0.1261 mL	0.2522 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

- Gribble MJ, et al. Erythromycin. *Med Clin North Am.* 1982 Jan;66(1):79-89.
 Nakornchai S, et al. Activity of azithromycin or erythromycin in combination with antimalarial drugs against multidrug-resistant *Plasmodium falciparum* in vitro. *Acta Trop.* 2006 Dec;100(3):185-91. Epub 2006 Nov 28.

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