

CGI-17341

Chemical Properties

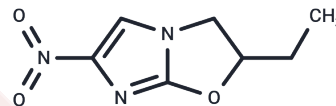
CAS No. : 127692-13-1

Formula: C₇H₉N₃O₃

Molecular Weight: 183.16

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	CGI-17341 is an orally active representative of the 5-nitroimidazole series of antimicrobial agents. CGI 17341 inhibits the drug-susceptible and multi-drug-resistant strains of Mycobacterium tuberculosis at concentrations ranging from 0.1 to 0.3 micrograms/mL.
Targets(IC50)	Others,Antibacterial

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.4597 mL	27.2985 mL	54.5971 mL
5 mM	1.0919 mL	5.4597 mL	10.9194 mL
10 mM	0.546 mL	2.7299 mL	5.4597 mL
50 mM	0.1092 mL	0.546 mL	1.0919 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

Manjunatha UH, Boshoff H, Dowd CS, Zhang L, Albert TJ, Norton JE, Daniels L, Dick T, Pang SS, Barry CE 3rd. Identification of a nitroimidazo-oxazine-specific protein involved in PA-824 resistance in Mycobacterium tuberculosis. Proc Natl Acad Sci U S A. 2006 Jan 10;103(2):431-6. Epub 2005 Dec 30. PubMed PMID: 16387854; PubMed Central PMCID: PMC1326169.

Tomioka H. [Prospects for development of new antituberculous drugs]. Kekkaku. 2002 Aug;77(8):573-84. Japanese. PubMed PMID: 12235850.

Stover CK, Warrener P, VanDevanter DR, Sherman DR, Arain TM, Langhorne MH, Anderson SW, Towell JA, Yuan Y, McMurray DN, Kreiswirth BN, Barry CE, Baker WR. A small-molecule nitroimidazopyran drug candidate for the treatment of tuberculosis. Nature. 2000 Jun 22;405(6789):962-6. PubMed PMID: 10879539.

Ashtekar DR, Costa-Perira R, Nagrajan K, Vishvanathan N, Bhatt AD, Rittel W. In vitro and in vivo activities of the nitroimidazole CGI 17341 against Mycobacterium tuberculosis. Antimicrob Agents Chemother. 1993 Feb;37(2):183-6. PubMed PMID: 8452346; PubMed Central PMCID: PMC187635.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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