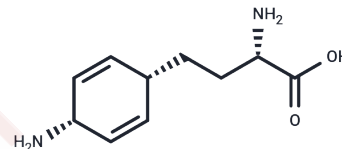


Amiclenomycin

Chemical Properties

CAS No. :	53696-70-1
Formula:	C ₁₀ H ₁₆ N ₂ O ₂
Molecular Weight:	196.25
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	Amiclenomycin is an antibiotic. It has activity against mycobacterium.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.0955 mL	25.4777 mL	50.9554 mL
5 mM	1.0191 mL	5.0955 mL	10.1911 mL
10 mM	0.5096 mL	2.5478 mL	5.0955 mL
50 mM	0.1019 mL	0.5096 mL	1.0191 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

Gehrke SS, Kumar G, Yokubynas NA, Côté JP, Wang W, French S, MacNair CR, Wright GD, Brown ED. Exploiting the Sensitivity of Nutrient Transporter Deletion Strains in Discovery of Natural Product Antimetabolites. *ACS Infect Dis.* 2017 Dec 8;3(12):955-965. doi: 10.1021/acsinfecdis.7b00149. Epub 2017 Nov 7. PubMed PMID: 29069544.

Eiden CG, Aldrich CC. Synthesis of a 3-Amino-2,3-dihydropyrid-4-one and Related Heterocyclic Analogues as Mechanism-Based Inhibitors of BioA, a Pyridoxal Phosphate-Dependent Enzyme. *J Org Chem.* 2017 Aug 4;82(15):7806-7819. doi: 10.1021/acs.joc.7b00847. Epub 2017 Jul 26. PubMed PMID: 28682613; PubMed Central PMCID: PMC5590672.

Shi C, Aldrich CC. Design and synthesis of potential mechanism-based inhibitors of the aminotransferase BioA involved in biotin biosynthesis. *J Org Chem.* 2012 Jul 20;77(14):6051-8. doi: 10.1021/jo3008435. Epub 2012 Jul 3. PubMed PMID: 22724679; PubMed Central PMCID: PMC3448953.

Mann S, Ploux O. Pyridoxal-5'-phosphate-dependent enzymes involved in biotin biosynthesis: structure, reaction mechanism and inhibition. *Biochim Biophys Acta.* 2011 Nov;1814(11):1459-66. doi: 10.1016/j.bbapap.2010.12.004. Epub 2010 Dec 21. Review. PubMed PMID: 21182990.

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