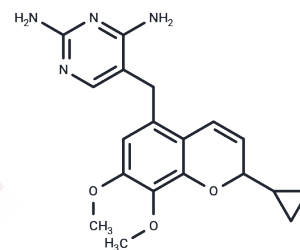


Iclaprim

Chemical Properties

CAS No. :	192314-93-5
Formula:	C ₁₉ H ₂₂ N ₄ O ₃
Molecular Weight:	354.4
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	Iclaprim (AR-100) is a novel specific bacterial Dihydrofolate inhibitor. It can inhibit the growth of <i>S. aureus</i> (MIC ₉₀ : 0.06 µg/mL).
Targets(IC ₅₀)	Antibacterial, Antibiotic
In vitro	Iclaprim, a new selective dihydrofolate inhibitor. Iclaprim's interaction with a resistant <i>Staphylococcus aureus</i> dihydrofolate reductase (DHFR) is outlined in comparison to trimethoprim (TMP). This compound is active against methicillin, TMP and vancomycin resistant strains[1].

Solubility Information

Solubility	DMSO: 28 mg/mL (79.01 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8217 mL	14.1084 mL	28.2167 mL
5 mM	0.5643 mL	2.8217 mL	5.6433 mL
10 mM	0.2822 mL	1.4108 mL	2.8217 mL
50 mM	0.0564 mL	0.2822 mL	0.5643 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

Schneider P, et al. Iclaprim, a novel diaminopyrimidine with potent activity on trimethoprim sensitive and resistant bacteria. *Bioorg Med Chem Lett*. 2003 Dec 1;13(23):4217-21.

Kohlhoff SA, et al. Iclaprim. *Expert Opin Investig Drugs*. 2007 Sep;16(9):1441-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481