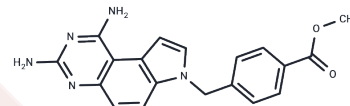


Antibacterial agent 26

Chemical Properties

CAS No. :	75369-40-3
Formula:	C ₁₉ H ₁₇ N ₅ O ₂
Molecular Weight:	347.37
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	Antibacterial agent 26 is an antimicrobial compound that is a potent DHFR inhibitor (<i>S. aureus</i> DHFR Ki of 0.020 nM).
Targets(IC50)	Antibacterial

Solubility Information

Solubility	DMSO: 40 mg/mL (115.15 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.76 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8788 mL	14.3939 mL	28.7877 mL
5 mM	0.5758 mL	2.8788 mL	5.7575 mL
10 mM	0.2879 mL	1.4394 mL	2.8788 mL
50 mM	0.0576 mL	0.2879 mL	0.5758 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

Santa Maria JP Jr, et al. Linking High-Throughput Screens to Identify MoAs and Novel Inhibitors of Mycobacterium tuberculosis Dihydrofolate Reductase. ACS Chem Biol. 2017 Sep 15;12(9):2448-2456.

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