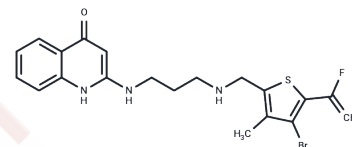


Bederocin

Chemical Properties

CAS No. :	757942-43-1
Formula:	C ₂₀ H ₂₁ BrFN ₃ O ₃ S
Molecular Weight:	450.37
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	Bederocin (REP8839) is a novel inhibitor of methionyl tRNA synthase (METS) with potent antibacterial activity against clinical isolates of <i>Staphylococcus aureus</i> , <i>Streptococcus pyogenes</i> , and other clinically important Gram-positive bacteria.
Targets(IC ₅₀)	Antibacterial

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2204 mL	11.102 mL	22.204 mL
5 mM	0.4441 mL	2.2204 mL	4.4408 mL
10 mM	0.222 mL	1.1102 mL	2.2204 mL
50 mM	0.0444 mL	0.222 mL	0.4441 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

- Hussain T, et al. Inhibition of protein synthesis and malaria parasite development by drug targeting of methionyl-tRNA synthetases. *Antimicrob Agents Chemother.* 2015 ; 59(4):1856-1867.
- Faqi AS, et al. An intranasal irritation assessment of antibacterial ointment alone or in combination with mupirocin versus Bactroban Nasal in rabbits. *Regul Toxicol Pharmacol.* 2009 ; 55(1):28-32.
- Green LS, et al. Inhibition of methionyl-tRNA synthetase by REP8839 and effects of resistance mutations on enzyme activity. *Antimicrob Agents Chemother.* 2009 ; 53(1):86-94.
- Critchley IA, et al. Recent advances in the preclinical evaluation of the topical antibacterial agent REP8839. *Curr Opin Chem Biol.* 2008 ; 12(4):409-417.

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