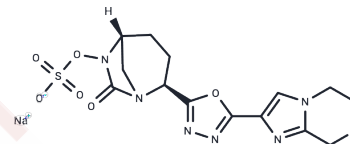


Antibacterial agent 47

Chemical Properties

CAS No. :	1426572-52-2
Formula:	C ₁₄ H ₁₅ N ₆ NaO ₇ S
Molecular Weight:	434.36
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 47 demonstrates potent antibacterial activity as an adjunct therapy to parenteral antibiotic Ceftazidime. By effectively reducing the minimum inhibitory concentration (MIC) of Ceftazidime, Antibacterial Agent 47 acts as a highly promising antimicrobial agent, thereby enhancing the overall efficacy of the treatment.
Targets(IC50)	Others,Antibacterial
In vitro	Antibacterial agent 47 (Compound 10), as reported in WO2013030735A1, enhances the efficacy of Ceftazidime by significantly reducing its minimum inhibitory concentration (MIC) values against E. coli strains NCTC 13351, M50, and 7MP, with MICs recorded at 16, 16, and 32 mcg/ml, respectively [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3022 mL	11.5112 mL	23.0224 mL
5 mM	0.4604 mL	2.3022 mL	4.6045 mL
10 mM	0.2302 mL	1.1511 mL	2.3022 mL
50 mM	0.046 mL	0.2302 mL	0.4604 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

Sachin Bhagwat, et al. 1,6- diazabicyclo [3,2,1] octan- 7 - one derivatives and their use in the treatment of bacterial infections.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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