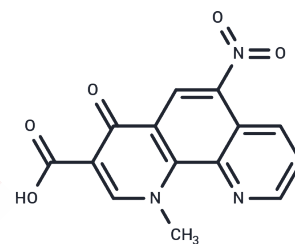


Antibacterial agent 105

Chemical Properties

CAS No. :	2364493-24-1
Formula:	C ₁₄ H ₉ N ₃ O ₅
Molecular Weight:	299.24
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 105 (Compound 17), a phenanthroline analog of quinolones, exhibits antibacterial activity against <i>M. tuberculosis</i> with an MIC 90 of 2.64 μ M. Additionally, it displays activity against <i>M. smegmatis</i> , <i>M. aurum</i> , <i>M. marinum</i> , BCG, <i>E. aerogenes</i> , and <i>S. aureus</i> with MIC 90 values of 11.18, 11.18, 0.70, 1.40, 44.70, and 22.35 μ M, respectively [1].
Targets(IC50)	Others,Antibacterial,Antibiotic
In vitro	Antibacterial agent 105 (compound 17) inhibits the growth of <i>M. tuberculosis</i> in in vitro cultured macrophages and shows antibacterial activity against fluoroquinolone-resistant bacteria and XDR-TB, without exhibiting toxicity towards Vero cell lines and human macrophages after 24 hours of exposure [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3418 mL	16.709 mL	33.418 mL
5 mM	0.6684 mL	3.3418 mL	6.6836 mL
10 mM	0.3342 mL	1.6709 mL	3.3418 mL
50 mM	0.0668 mL	0.3342 mL	0.6684 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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