

CYP121A1-IN-1

Chemical Properties

CAS No. :

Formula: C₂₂H₂₀N₄O

Molecular Weight: 356.42

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	CYP121A1-IN-1 is a potent inhibitor of CYP121A1, demonstrating favorable activity against Mycobacterium tuberculosis (H37Rv MIC 90 ~6.25 μM, ~2.2 μg/mL). It significantly reduces mycocyclosin production by blocking the CYP121A1-mediated conversion of cyclo(l-tyrosyl-l-tyrosyl) to mycocyclosin [1].
Targets(IC50)	Others,Cytochromes P450
In vitro	CYP121A1-IN-1 (compound 61), used in concentrations ranging from 0.78 to 400 μM for durations of either one week (c7H9 and 7H9-Low BSA media) or two weeks (MMM-Ch medium), exhibits effective activity against the Mtb strain H37Rv, with a MIC 90 of approximately 6.25 μM (about 2.2 μg/mL) [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8057 mL	14.0284 mL	28.0568 mL
5 mM	0.5611 mL	2.8057 mL	5.6114 mL
10 mM	0.2806 mL	1.4028 mL	2.8057 mL
50 mM	0.0561 mL	0.2806 mL	0.5611 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481