

Mtb-cyt-bd oxidase-IN-6

Chemical Properties

CAS No. :	1246461-10-8
Formula:	C ₂₀ H ₂₇ NO
Molecular Weight:	297.43
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	Mtb-cyt-bd oxidase-IN-6, a potent inhibitor of Mycobacterium tuberculosis (Mtb) cytochrome bd (cyt-bd) oxidase (MtbCyt-bd Oxidase), exhibits an inhibitory concentration (IC ₅₀) of 0.35 μM and effectively suppresses Mtb growth with a minimum inhibitory concentration (MIC) of 4 μM. This compound is utilized in tuberculosis research [1].
Targets(IC ₅₀)	Others,Antibacterial
In vitro	Mtb-cyt-bd oxidase-IN-5 (compound 1d; 0-2048 μM; 7 days) exhibits antimycobacterial activity by inhibiting the growth of M. tuberculosis, with a minimum inhibitory concentration (MIC) of 256 μM [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3621 mL	16.8107 mL	33.6214 mL
5 mM	0.6724 mL	3.3621 mL	6.7243 mL
10 mM	0.3362 mL	1.6811 mL	3.3621 mL
50 mM	0.0672 mL	0.3362 mL	0.6724 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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