

## Penicolinate B

## Chemical Properties

CAS No. :	1418291-70-9
Formula:	C <sub>23</sub> H <sub>30</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	398.5
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	Penicolinate B is a pyridinecarboxylic acid derivative isolated from Penicillium species. It exhibits antimalarial activity (IC <sub>50</sub> : 1.40 µg/mL), antitubercular activity (MIC: 25.0 µg/mL), and activity against Bacillus cereus (IC <sub>50</sub> : 25.0 µg/mL) and Candida albicans (IC <sub>50</sub> : 1.45 µg/mL). Additionally, Penicolinate B demonstrates cytotoxicity against cancer cell lines such as MCF-7, KB, and NCI-H187. It is useful for research into malaria, tuberculosis, bacterial/fungal infections, and cancer.
Targets(IC <sub>50</sub> )	Parasite

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5094 mL	12.5471 mL	25.0941 mL
5 mM	0.5019 mL	2.5094 mL	5.0188 mL
10 mM	0.2509 mL	1.2547 mL	2.5094 mL
50 mM	0.0502 mL	0.2509 mL	0.5019 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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