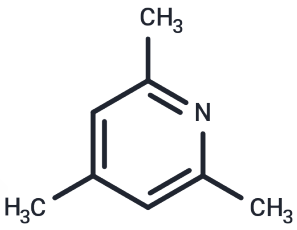
Data Sheet (Cat.No.TN9299)

TargetMol

2,4,6-Trimethylpyridine

Chemical Properties



CAS No. : 108-75-8

Formula: C8H11N

Molecular Weight: 121.18

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	2,4,6-Trimethylpyridine is a pyridine derivative widely used in biochemical experiments and drug synthesis research.
Targets(IC50)	Others
In vitro	A series of actinomycete strains from Western Australia were screened for their ability to inhibit the growth of plant fungal pathogens in vitro. Solid phase microextraction (SPME) coupled with gas chromatography-mass spectrometry (GC-MS) analysis identified 2,4,6-Trimethylpyridine, a previously uncharacterized compound from actinomycetes, which showed antifungal activity against different isolates of S. sclerotiorum and increased the pH of the culture medium.[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.2522 mL	41.2609 mL	82.5219 mL
5 mM	1.6504 mL	8.2522 mL	16.5044 mL
10 mM	0.8252 mL	4.1261 mL	8.2522 mL
50 mM	0.165 mL	0.8252 mL	1.6504 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

Belt K, et al. Actinobacteria Warfare Against the Plant Pathogen Sclerotinia sclerotiorum: 2,4,6-Trimethylpyridine Identified as a Bacterial Derived Volatile With Antifungal Activity. Microb Biotechnol. 2025 Mar;18(3):e70082. doi: 10.1111/1751-7915.70082.

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