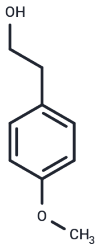
Data Sheet (Cat.No.T67679)

TargetMol

4-Methoxyphenethyl alcohol

Chemical Properties



CAS No. : 702-23-8

Formula: C9H12O2

Molecular Weight: 152.19

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	4-Methoxyphenethyl alcohol is a small-molecule aromatic alcohol and the primary component responsible for the anise-like odor produced by Amorphophallus. 4-Methoxyphenethyl alcohol exhibits antioxidant and antibacterial activity. It effectively inhibits protein and nucleic acid synthesis in Escherichia coli.
Targets(IC50)	Others,Antibacterial,DNA/RNA Synthesis
In vitro	Methods: E. coli B was treated with 4-Methoxyphenethyl alcohol (0.48×10^{-5} mol/ml) and incubated for 4 hours. After 4 hours, the compound was washed off, and the cells were incubated for an additional 2 hours. DNA and RNA content were then determined by chemical analysis. Results: 4-Methoxyphenethyl alcohol inhibits DNA and RNA synthesis in E. coli B. [1]

Solubility Information

Solubility	DMSO: 80.00 mg/mL (525.66 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.5707 mL	32.8537 mL	65.7073 mL
5 mM	1.3141 mL	6.5707 mL	13.1415 mL
10 mM	0.6571 mL	3.2854 mL	6.5707 mL
50 mM	0.1314 mL	0.6571 mL	1.3141 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

Khafagy EZ, et al. Inhibition of protein, RNA and DNA synthesis in Escherichia coli by p-methoxyphenethyl alcohol. Biochim Biophys Acta. 1966;123(3):646-648.

Kite GC, et, al. Inflorescence odours of Amorphophallus and Pseudodracontium (Araceae). Phytochemistry. 1997 Sep; 46(1): 71-75.

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