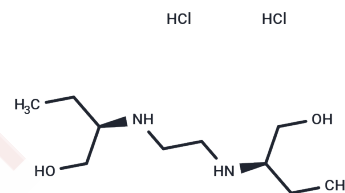


## Ethambutol dihydrochloride

## Chemical Properties

CAS No. : 1070-11-7  
Formula: C<sub>10</sub>H<sub>26</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>2</sub>  
Molecular Weight: 277.24  
Appearance: no data available  
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## Biological Description

Description	Ethambutol dihydrochloride (CL40881) is a bacteriostatic antimycobacterial agent, which obstructs the formation of cell wall by inhibiting arabinosyl transferases.
Targets(IC50)	Antibacterial,Antibiotic,Antifungal
In vitro	In animal models, Ethambutol is administered orally at a dosage of 100 mg/kg.
In vivo	Ethambutol primarily targets the product of the embB gene, inducing mutations within the emb gene in drug-resistant strains of tuberculosis. In Mycobacterium smegmatis, Ethambutol affects arabinogalactan and lipoarabinomannan biosynthesis.

## Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 60 mg/mL (216.42 mM),Sonication is recommended. H2O: 51 mg/mL (183.96 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.607 mL	18.0349 mL	36.0698 mL
5 mM	0.7214 mL	3.607 mL	7.214 mL
10 mM	0.3607 mL	1.8035 mL	3.607 mL
50 mM	0.0721 mL	0.3607 mL	0.7214 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.

### Reference

No authors listed. Tuberculosis (Edinb), 2008, 88(2), 102-105.

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