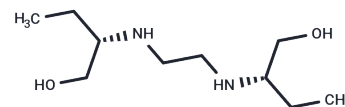


Ethambutol

Chemical Properties

CAS No. :	74-55-5
Formula:	C ₁₀ H ₂₄ N ₂ O ₂
Molecular Weight:	204.31
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Ethambutol is a bacteriostatic antimycobacterial agent obstructed the formation of cell wall by inhibiting arabinosyl transferases.
In vitro	Ethambutol is effective against <i>M. tuberculosis</i> (H37Rv) with MIC of 0.5 µg/mL in vitro [2]. Ethambutol is efficient on treatment of mycobacterial-infected macrophages. When <i>M. tuberculosis</i> infected macrophages are treated with 6 µg/mL Ethambutol, the log CFUs following treatment for 3 days is 4.17, while value in control group is 4.8. The MICs for <i>M. avium</i> (MTCC 1723) and <i>M. smegmatis</i> (MTCC 6) are 15 µg/mL and 0.18 µg/mL, respectively.
In vivo	Ethambutol is efficient in animal model. 100 mg/kg Ethambutol given orally 15 days post i.v. infection 1 ×/week for 5 weeks, induces a lower log CFU compared to untreatment (4.59 vs 5.07) [3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8945 mL	24.4726 mL	48.9452 mL
5 mM	0.9789 mL	4.8945 mL	9.789 mL
10 mM	0.4895 mL	2.4473 mL	4.8945 mL
50 mM	0.0979 mL	0.4895 mL	0.9789 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481