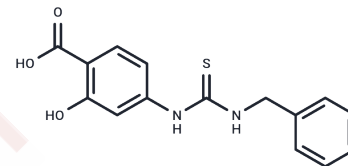


Antibacterial agent 122

Chemical Properties

CAS No. :	109310-99-8
Formula:	C ₁₅ H ₁₄ N ₂ O ₃ S
Molecular Weight:	302.35
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	Antibacterial agent 122 (compound 15) is a thiourea derivative used in tuberculosis research, demonstrating low cytotoxicity and anti-mycobacterial activity [1].
Targets(IC50)	Others,Antibacterial
In vitro	Antibacterial agent 122 (compound 15) (25-200 μM, 24 h) inhibits M. tuberculosis H37Rv with an MIC ₅₀ of 5.9 μM, reduces NO production in LPS-stimulated RAW 264.7 cells with an IC ₅₀ of 8.1 μM, scavenges NO with an IC ₅₀ of 184.2 μM, and nearly completely inhibits iNOS expression at 100 μM [1]. Additionally, at concentrations of 0-200 μM, it inhibits TNF-α and IL-1β production in LPS-stimulated macrophages with IC ₅₀ values of 28.4 μM and 47.9 μM, respectively. Furthermore, at 25-100 μM over 4 days, it inhibits M. tuberculosis M299 with an MIC ₅₀ of 24.7 μM [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3074 mL	16.5371 mL	33.0743 mL
5 mM	0.6615 mL	3.3074 mL	6.6149 mL
10 mM	0.3307 mL	1.6537 mL	3.3074 mL
50 mM	0.0661 mL	0.3307 mL	0.6615 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

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

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