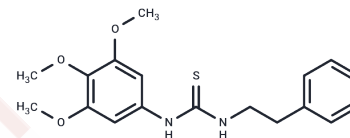


## Antibacterial agent 121

## Chemical Properties

CAS No. : 474099-18-8  
 Formula: C<sub>18</sub>H<sub>22</sub>N<sub>2</sub>O<sub>3</sub>S  
 Molecular Weight: 346.44  
 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 121 (Compound 10) exhibits antibacterial properties against mycobacterial strains and possesses anti-inflammatory activity, making it a promising candidate for Tuberculosis (TB) research [1].
Targets(IC50)	Others,Antibacterial
In vitro	Antibacterial agent 121 (0.2-200 $\mu$ M; 24 h) inhibits <i>M. tuberculosis</i> H37Rv growth in bacterial culture [1] and reduces NO production in LPS-stimulated RAW 264.7 cell cultures with an IC 50 value of 4.1 $\mu$ M [1]. It also inhibits TNF- $\alpha$ and IL-1 $\beta$ production in LPS-stimulated macrophages (6.25-200 $\mu$ M; 24 h) [1] and <i>M. tuberculosis</i> M299 with an MIC 50 value of 24.8 $\mu$ M (25-100 $\mu$ M; 4 d) [1]. Cell viability assays showed it inhibited <i>Mtb</i> H37Rv growth with an MIC 50 of 8.6 $\mu$ M (0.2-200 $\mu$ M; 24 h) and exhibited IC 50 values of 15.3 $\mu$ M and 28.4 $\mu$ M for TNF- $\alpha$ and IL-1 $\beta$ production in RAW 264.7 and J774A.1 macrophages, respectively (6.25-200 $\mu$ M; 24 h) [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8865 mL	14.4325 mL	28.865 mL
5 mM	0.5773 mL	2.8865 mL	5.773 mL
10 mM	0.2887 mL	1.4433 mL	2.8865 mL
50 mM	0.0577 mL	0.2887 mL	0.5773 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

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481