Antibacterial agent 121

MedChemExpress

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-151354 474099-18-8 C ₁₈ H ₂₂ N ₂ O ₃ S 346.44 Bacterial Anti-infection Please store the product under the recommended conditions in the Certificate of Analysis.	S N H H H H H H H H H H H H H H H H H H
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BIOLOGICAL ACTIVITY			
Description	Antibacterial agent 121 (Compound 10) is an antibacterial agent. Antibacterial agent 121 shows anti-mycobacterial and anti- inflammatory activities and can be used in Tuberculosis (TB) research ^[1] .		
In Vitro	Antibacterial agent 121 (0.2-200 μ M; 24 h) inhibits M. tuberculosis H37Rv growth in bacterial culture ^[1] . Antibacterial agent 121 (0-200 μ M; 24 h) inhibits NO production in LPS-stimulated RAW 264.7 cell cultures with an IC ₅₀ value of 4.1 μ M ^[1] . Antibacterial agent 121 (6.25-200 μ M, 24 h) inhibits TNF- α and IL-1 β production in LPS-stimulated macrophages ^[1] . Antibacterial agent 121 (25-100 μ M, 4 d) inhibits M. tuberculosis M299 with an MIC ₅₀ value of 24.8 μ M ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]		
	Cell Line:	M. tuberculosis H37Rv	
	Concentration:	0.2-200 μΜ	
	Incubation Time:	24 hours	
	Result:	Inhibited Mtb H37Rv growth with MIC_{50} of 8.6 $\mu\text{M}.$	
	Cell Viability Assay ^[1]		
	Cell Line:	RAW 264.7 macrophages and J774A.1 macrophages	
	Concentration:	6.25-200 μM	
	Incubation Time:	24 hours	
	Result:	Showed IC $_{50}$ values of 15.3 μM and 28.4 μM for TNF- α and IL-1 β production, respectively.	

REFERENCES

[1]. Sanderson Dias Calixto, et al. Antimycobacterial and anti-inflammatory activities of thiourea derivatives focusing on treatment approaches for severe pulmonary tuberculosis. Bioorg Med Chem. 2022 Jan 1;53:116506.



Product Data Sheet

Caution: Product has not been fully validated for medical applications. For research use only.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA