## 4-Hydroxyoxyphenbutazone

MedChemExpress

Cat. No.:	HY-108050	
CAS No.:	55648-39-0	HO
Molecular Formula:	$C_{19}H_{20}N_{2}O_{4}$	, p
Molecular Weight:	340.37	N OH
Target:	Bacterial	Ň
Pathway:	Anti-infection	Ŭ Ö
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	~

BIOLOGICAL ACTIVITY		
DIOLOGICAL ACTIVITY		
Description	4-Hydroxyoxyphenbutazone kills both replicating and nonreplicating (NR) <i>Mycobacterium tuberculosis</i> (Mtb), including Mtb resistant to standard agents. 4-Hydroxyoxyphenbutazone is a potent inhibitor of cytokine production. 4-Hydroxyoxyphenbutazone is an immunosuppressive agent and has the potential for rheumatoid arthritis research <sup>[1][2]</sup> .	
In Vitro	<ul> <li>4-Hydroxyoxyphenbutazone kills R Mtb in liquid culture with an MIC of 100 μM in the presence of 0.5% BSA and an MIC of 25 μM at lower BSA concentrations. The bactericidal spectrum of 4-Hydroxyoxyphenbutazone is remarkably narrow, with weak activity against Mycobacterium smegmatis (MIC of 200 μM in 7H9 lacking BSA). 4-Hydroxyoxyphenbutazone was inactive on E. coli, S. enterica var<sup>[1]</sup>.</li> <li>4-Hydroxyoxyphenbutazone efficiently inhibits both monokines and Th1 and Th2 lymphokines in peripheral mononuclear cells (PBMC)<sup>[2]</sup>.</li> <li>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</li> </ul>	

## REFERENCES

[1]. Ben Gold, et al. Nonsteroidal anti-inflammatory drug sensitizes Mycobacterium tuberculosis to endogenous and exogenous antimicrobials.

[2]. Anja Ten Brinke, et al. 4-Hydroxy-oxyphenbutazone is a potent inhibitor of cytokine production. Eur Cytokine Netw. 2005 Jun;16(2):144-51.

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

Product Data Sheet