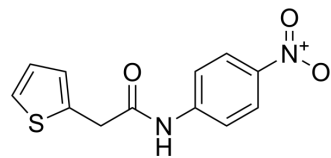


Antitubercular agent-30

Cat. No.:	HY-151236
CAS No.:	384857-54-9
Molecular Formula:	C ₁₂ H ₁₀ N ₂ O ₃ S
Molecular Weight:	262.28
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (476.59 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	3.8127 mL	19.0636 mL	38.1272 mL
				5 mM	0.7625 mL	3.8127 mL	7.6254 mL
				10 mM	0.3813 mL	1.9064 mL	3.8127 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (7.93 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Antitubercular agent-30 is an antibacterial agent against Mycobacterium tuberculosis (MIC=50 µg/mL). Antitubercular agent-30 has little cytotoxic effect on murine macrophage cells (LD ₈₅ ~100 µg/mL) ^[1] .
In Vitro	Antitubercular agent-30 (compound 16) (0.1-100 µg/mL; 18 h) shows no cytotoxic effect on murine macrophage with concentration below 10 µg/mL ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Silva Lourenço MC, et al. Synthesis and biological evaluation of N-(aryl)-2-thiophen-2-ylacetamides series as a new class of antitubercular agents. Bioorg Med Chem Lett. 2007 Dec 15;17(24):6895-8.

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