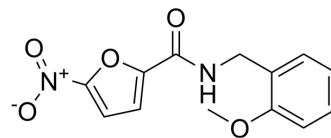


## Antituberculosis agent-5

Cat. No.:	HY-151514
CAS No.:	313981-44-1
Molecular Formula:	C <sub>13</sub> H <sub>12</sub> N <sub>2</sub> O <sub>5</sub>
Molecular Weight:	276.24
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 : 100 mg/mL (362.00 mM); ultrasonic and warming and heat to 60°C				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.6200 mL	18.1002 mL	36.2004 mL
		5 mM	0.7240 mL	3.6200 mL	7.2401 mL
		10 mM	0.3620 mL	1.8100 mL	3.6200 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (9.05 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Antituberculosis agent-5 (compound 52) is a nitrofuranyl amide derivative, inhibits M. tuberculosis UDP-Gal mutase. Antituberculosis agent-5 inhibits Glf activity with an IC <sub>50</sub> value of 99 μM/mL and resists tuberculosis (TB) with a MIC value of 1.6 μg/mL <sup>[1]</sup> .
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### REFERENCES

[1]. Tangallapally RP, et al. Synthesis and evaluation of nitrofuranyl amides as novel antituberculosis agents. J Med Chem. 2004 Oct 7;47(21):5276-83.

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

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