Benzothiohydrazide

Cat. No.: HY-129943

CAS No.: 20605-40-7

Molecular Formula: $C_7H_8N_2S$

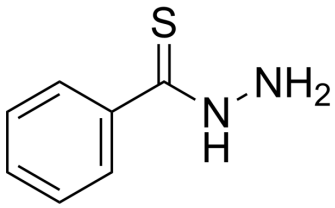
Molecular Weight: 152.22

Target: Bacterial

Pathway: Anti-infection

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (328.47 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	6.5694 mL	32.8472 mL	65.6944 mL
	5 mM	1.3139 mL	6.5694 mL	13.1389 mL
	10 mM	0.6569 mL	3.2847 mL	6.5694 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 (16.42 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (16.42 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (16.42 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Benzothiohydrazide is an analogue of anti–tubercular agent Isoniazid. Benzothiohydrazide exhibits anti–tubercular activity, with MICs of 132 μM and 264 μM for M. tuberculosis wild type (H37Rv) and clinical mutant strains (IC_1 and IC_2)[1].

REFERENCES

[1]. J. Laborde, et al. Synthesis, oxidation potential and anti–mycobacterial activity of isoniazid and analogues: insights into the molecular isoniazid activation mechanism.

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