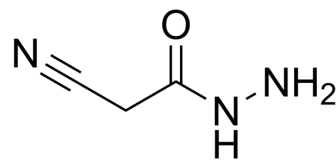


Cyanoacetohydrazide

Cat. No.:	HY-B0994
CAS No.:	140-87-4
Molecular Formula:	C ₃ H ₃ N ₃ O
Molecular Weight:	99.09
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (1009.18 mM; Need ultrasonic)
H₂O : 100 mg/mL (1009.18 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	10.0918 mL	50.4592 mL	100.9184 mL
	5 mM	2.0184 mL	10.0918 mL	20.1837 mL
	10 mM	1.0092 mL	5.0459 mL	10.0918 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (1009.18 mM); Clear solution; Need ultrasonic and warming and heat to 60°C
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (25.23 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (25.23 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (25.23 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Cyanoacetohydrazide is an anti-TB drug.

REFERENCES

[1]. El-Hawash SA, et al. Cyanoacetic acid hydrazones of 3-(and 4-)acetylpyridine and some derived ring systems as potential antitumor and anti-HCV agents. Arch Pharm (Weinheim). 2006 Jan;339(1):14-23.

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

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