

Cyanoacetohydrazide

Chemical Properties

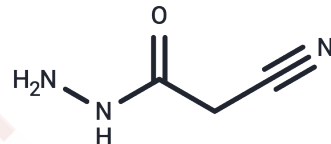
CAS No. : 140-87-4

Formula: C₃H₅N₃O

Molecular Weight: 99.09

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Cyanoacetohydrazide (Cyanoacetic hydrazide) is an anti-TB drug. It has also been used to derive compounds that may have antitumor properties.
Targets(IC50)	Antibacterial,GSK-3

Solubility Information

Solubility	DMSO: 45 mg/mL (454.13 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (20.18 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.2018 mL	1.0092 mL	2.0184 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

X M He, et al. Acta Crystallogr A. 1993 Jan 1;49 (Pt 1):10-22.

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