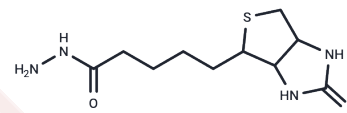


Biotin Hydrazide

Chemical Properties

CAS No. :	66640-86-6
Formula:	C ₁₀ H ₁₈ N ₄ O ₂ S
Molecular Weight:	258.34
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Biotin Hydrazide is a carbonyl-reactive biotinylation reagent and carbonyl probe, ideal for labeling mouse monoclonal antibodies, lectins, sugars, unpaired cytosine residues in nucleic acids, and glycoproteins.
Targets(IC50)	Others
In vitro	Biotin Hydrazide is a biotinylation reagent. Which is used to biotinylate glycoproteins and glycolipids[1].

Solubility Information

Solubility	H ₂ O: 2 mg/mL (7.74 mM),Sonication is recommended. DMSO: 13.5 mg/mL (52.26 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: 1 mg/mL (3.87 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	3.8709 mL	19.3543 mL	38.7087 mL
5 mM	0.7742 mL	3.8709 mL	7.7417 mL
10 mM	0.3871 mL	1.9354 mL	3.8709 mL
50 mM	0.0774 mL	0.3871 mL	0.7742 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

Wu J, et al. Two-dimensional gel electrophoretic detection of protein carbonyls derivatized with biotin-hydrazide. J Chromatogr B Analyt Technol Biomed Life Sci. 2016 Apr 15;1019:128-31.

Hensley K . Detection of Protein Carbonyls by Means of Biotin Hydrazide-Streptavidin Affinity Methods[J]. methods in molecular biology.

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