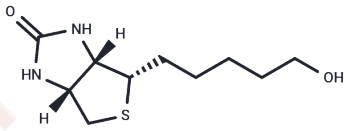
Data Sheet (Cat.No.T77222)

TargetMol

D-Biotinol

Chemical Properties



CAS No. : 53906-36-8

Formula: C10H18N2O2S

Molecular Weight: 230.33

Storage: Keep away from direct sunlight
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	D-Biotinol is a reduced derivative of biotin; D-Biotinol is a water-soluble small molecule containing a sulfur-containing heterocycle. In biological systems, D-Biotinol can participate in carboxylase-related reactions and serve as a structural analog of coenzymes. The structure of D-Biotinol retains the key backbone of biotin and is commonly used to study the reaction mechanisms of biotin-dependent enzymes or as a tool molecule in research on chemical modification and labeling.
Targets(IC50)	Others

Solubility Information

Solubility	Methanol: 25 mg/mL (108.54 mM),Sonication is recommended. DMSO: 100 mg/mL (434.16 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3416 mL	21.708 mL	43.416 mL
5 mM	0.8683 mL	4.3416 mL	8.6832 mL
10 mM	0.4342 mL	2.1708 mL	4.3416 mL
50 mM	0.0868 mL	0.4342 mL	0.8683 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

Drekter L, et al. Utilization of d-Biotinol by Microorganisms, the Rat and Human[J]. Proceedings of the Society for Experimental Biology and Medicine, 1951, 78(2): 381-383.

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