D-Desthiobiotin

Cat. No.:	HY-128699			
CAS No.:	533-48-2			
Molecular Formula:	C ₁₀ H ₁₈ N ₂ O ₃			
Molecular Weight:	214.26			
Target:	Endogenous Metabolite			
Pathway:	Metabolic Enzyme/Protease			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

SOLVENT & SOLUBILITY

	H ₂ O : 1 mg/mL (4.67 mM; Need ultrasonic)							
		Solvent Mass Concentration	1 mg	5 mg	10 mg			
	Preparing Stock Solutions	1 mM	4.6672 mL	23.3361 mL	46.6723 mL			
		5 mM	0.9334 mL	4.6672 mL	9.3345 mL			
		10 mM	0.4667 mL	2.3336 mL	4.6672 mL			
	Please refer to the so	lubility information to select the app	propriate solvent.					
In Vivo		1. Add each solvent one by one: PBS Solubility: 3.7 mg/mL (17.27 mM); Clear solution; Need ultrasonic and warming and heat to 60°C						
		2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (9.71 mM); Clear solution						
		3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (9.71 mM); Clear solution						
		 Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (9.71 mM); Clear solution 						

BIOLOGICAL ACTIVITY					
Description	D-Desthiobiotin is a biotin derivative used in affinity chromatography and protein chromatography. D-Desthiobiotin also can be used for protein and cell labeling, detection and isolation ^{[1][2]} .				
IC ₅₀ & Target	Microbial Metabolite	Human Endogenous Metabolite			

Product Data Sheet

ОН



REFERENCES

[1]. Ali Ansari, et al. Secondary anchor targeted cell release. Biotechnol Bioeng

[2]. Röhlen DL, et al. Toward a Hybrid Biosensor System for Analysis of Organic and Volatile Fatty Acids in Fermentation Processes. Front Chem. 2018 Jul 17;6:284.

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

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