

## Iodoacetyl-LC-Biotin

## Chemical Properties

CAS No. : 93285-75-7

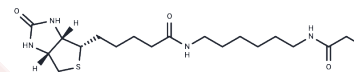
Formula: C<sub>18</sub>H<sub>31</sub>N<sub>4</sub>O<sub>3</sub>S

Molecular Weight: 510.43

Keep away from direct sunlight

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	Iodoacetyl-LC-Biotin (Iaa-Biotin) is a biotinylated and haloacetyl-activated sulfhydryl-responsive probe that forms irreversible thioether bonds at alkaline pH (7.5-8.5), is membrane-permeable, and can be used to label protein cysteines and other sulfhydryl-containing molecules.
Targets(IC50)	Apoptosis,Others
In vitro	Iodoacetyl-LC-Biotin (50-200μM, 6-24h) induces dose- and time-dependent cytotoxicity in HEK293 cells. Iodoacetyl-LC-Biotin causes LDH leakage (19-39% at 24h), mitochondrial cytochrome c release, caspase-3 activation, and PARP cleavage[1].

## Solubility Information

Solubility	DMSO: 16 mg/mL (31.35 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9591 mL	9.7957 mL	19.5913 mL
5 mM	0.3918 mL	1.9591 mL	3.9183 mL
10 mM	0.1959 mL	0.9796 mL	1.9591 mL
50 mM	0.0392 mL	0.1959 mL	0.3918 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

Wong HL, Liebler DC. Mitochondrial protein targets of thiol-reactive electrophiles. Chem Res Toxicol. 2008 Apr;21(4):796-804.

Bogusiewicz A, Mock NI, Mock DM. Instability of the biotin-protein bond in human plasma. Anal Biochem. 2004 Apr 15;327(2):156-61. PubMed PMID: 15051531.

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