# Biotin LC hydrazide

**Cat. No.:** HY-101885

**CAS No.:** 109276-34-8

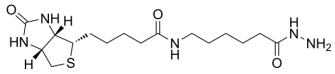
**Molecular Formula:** $C_{16}H_{29}N_5O_3S$

**Molecular Weight:** 371.5

**Target:** Biochemical Assay Reagents

**Pathway:** Others

**Storage:** 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 31 mg/mL (83.45 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 2.6918 mL | 13.4590 mL | 26.9179 mL |
| | 5 mM | 0.5384 mL | 2.6918 mL | 5.3836 mL |
| | 10 mM | 0.2692 mL | 1.3459 mL | 2.6918 mL |

Please refer to the solubility information to select the appropriate solvent.

**In Vivo**

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.58 mg/mL (6.94 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.58 mg/mL (6.94 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.58 mg/mL (6.94 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

Biotin LC hydrazide is a long chain protein modification reagent, which can transform periodate-oxidized glycoproteins.

**In Vitro**

Biotin LC hydrazide (BACH) is often used to target glycoproteins and glycans. It is carbohydrate reactive and is more sensitive than biotin hydrazide[1]. A new biotinylating system for DNA using Biotin LC hydrazide (biotin aminocaproyl hydrazide) and glutaraldehyde[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. O'Shannessy DJ, et al. Quantitation of glycoproteins on electroblots using the biotin-streptavidin complex. Anal Biochem. 1987 May 15;163(1):204-9.

[2]. Takahashi T, et al. A new biotinylating system for DNA using biotin aminocaproyl hydrazide and glutaraldehyde. Nucleic Acids Res. 1989 Jun 26;17(12):4899-900.



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