

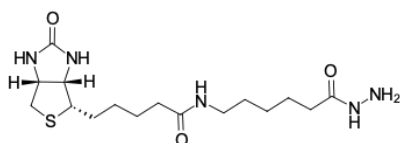
## Biotin X hydrazide

<http://www.lumiprobe.com/p/biotin-aminohexanoic-acid-hydrazide>

Hydrazide biotin reagent with aminocaproic spacer useful for biotinylation of macromolecule reactive carbonyls.

Under acidic conditions, biotin X hydrazide couples selectively to aldehydes, and acid residues oxidized to aldehydes. It is used to prepare biotin-tagged glycoproteins, glycolipids, and antibodies via carboxylic groups cross-linking through carbodiimide chemistry. Hydrazide biotin is a reagent for common use in carbonylation research.

The aminocaproic spacer arm relieves steric hindrance for binding to streptavidin and avidins.



**Structure of Biotin X hydrazide**

### General properties

Appearance: white crystals

Molecular weight: 371.51

Molecular formula: C<sub>16</sub>H<sub>29</sub>N<sub>5</sub>O<sub>3</sub>S

Solubility: in DMSO, DMF

Quality control: NMR <sup>1</sup>H and HPLC-MS (95+%)

Storage conditions: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.