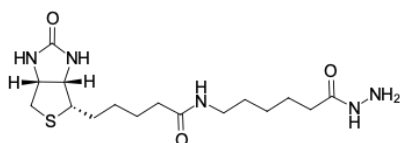

Biotin-X-hydrazide

<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: C₁₆H₂₉N₅O₃S

Solubility: in DMSO, DMF

Quality control: NMR ¹H 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.

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