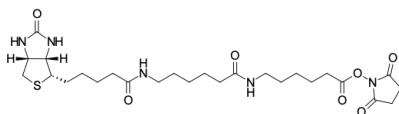


Biotin-XX-NHS ester

<http://www.lumiprobe.com/p/biotin-x-x-nhs-ester>

Biotin may be conjugated to many proteins while maintaining the biological activity. The biotinylated probe is usually detected by avidin, streptavidin due to their effective binding which is used in various applications such as affinity chromatography, ELISA and Western Blot, fluorescence-activated cell sorting (FACS), intracellular labeling.

Biotin-XX-NHS ester is a derivative with long spacer to reduce steric effect when binding amino acids, peptides, or proteins by reacting with primary amines. This compound is used to attach biotin to primary amines under alkaline conditions (pH 8-9).



Structure of Biotin X X NHS ester

General properties

Appearance: light beige solid

Molecular weight: 567.71

CAS number: 89889-52-1

Molecular formula: $C_{26}H_{41}N_5O_7S$

IUPAC name: (2,5-dioxopyrrolidin-1-yl) 6-[6-[5-[(3aS,4S,6aR)-2-oxo-1,3,3a,4,6,6a-hexahydrothieno[3,4-d]imidazol-4-yl]pentanoylamino]hexanoylamino]hexanoate

Solubility: DMSO, DMF, acetonitrile

Quality control: NMR 1H and HPLC-MS (95+%)

Storage conditions: 12 months after receipt at $-20^{\circ}C$ in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

Legal statement: Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial purposes.