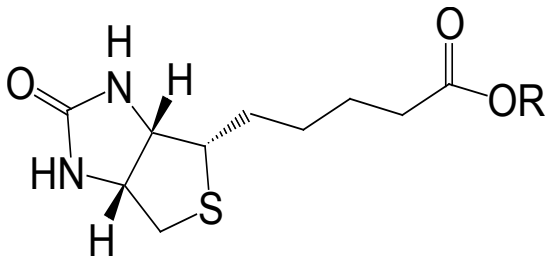
Novabiochem reagents for biotin-labeling of peptides

Biotin-labeled peptides have many important applications in immunology and histochemistry that exploit the high affinity of streptavidin and avidin for biotin.

Novabiochem offers a broad range of reagents facilitating the incorporation of the biotin moiety into peptides.



- Pre-activated biotin-esters
- Reversible biotinylation
- Biotin-spacer moieties
- Biotin-labeled amino acid derivatives
- Biotin-labeled NovaTag® resins

For more information or to order Novabiochem products, contact your local office

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For the design of biotinylated peptides, two of the most important considerations are the position of the biotin moiety and the nature of the spacer group between the peptide and biotin. This is because these can profoundly influence the strength of the peptide-protein and biotin-avidin interactions.

Product No.	Product Description	Size
Pre-activated biotin-esters For the efficient labeling of amines such as Lysine side-chains and N-termini of peptides with biotin.		
851027	Biotin-ONp	1 g
851023	Biotin-OSu	1 g
Reversible biotinylation Without any preactivation, biotinyldimedone reacts with free amines, forming a bond stable to acid and base treatments during Fmoc-peptide synthesis. Removal of the label can be obtained with treatment with 5% hydrazine, yielding the native peptide.		
851069	2-Biotinyldimedone	1 g 5 g
Biotin-spacer moieties Preformed spacer-biotin molecules allow the direct incorporation of a spacer unit for an efficient interaction of biotin with streptavidin. In the case of PEG-biotin, the spacer also increases the solubility of the peptide-biotin units.		
851029	N-Biotinyl-NH-$(PEG)_2$-COOH · DIPEA (20 atoms)	500 mg 1 g
Biotin-labeled amino acid derivatives For the incorporation of biotin during peptide synthesis at a precise location within the peptide sequence. Available are pre-labeled Glutamic Acid, Aspartic Acid and Lysine derivatives with different spacers between the biotin and the amino acid side-chain		
852113	Fmoc-Asp(biotinyl-PEG)-OH	500 mg 1 g
852102	Fmoc-Glu(biotinyl-PEG)-OH	500 mg 1 g
852097	Fmoc-Lys(biotin)-OH	500 mg 1 g
852100	Fmoc-Lys(biotinyl-ε-aminocaproyl)-OH	500 mg 1 g
Biotin-labeled NovaTag® resins For the direct synthesis of C-terminally labeled biotinylated peptides – available with a PEG-spacer unit and a simple diethyl spacer.		
855051	Biotin NovaTag™ resin	500 mg 1 g
855055	Biotin-PEG NovaTag™ resin	500 mg 1 g