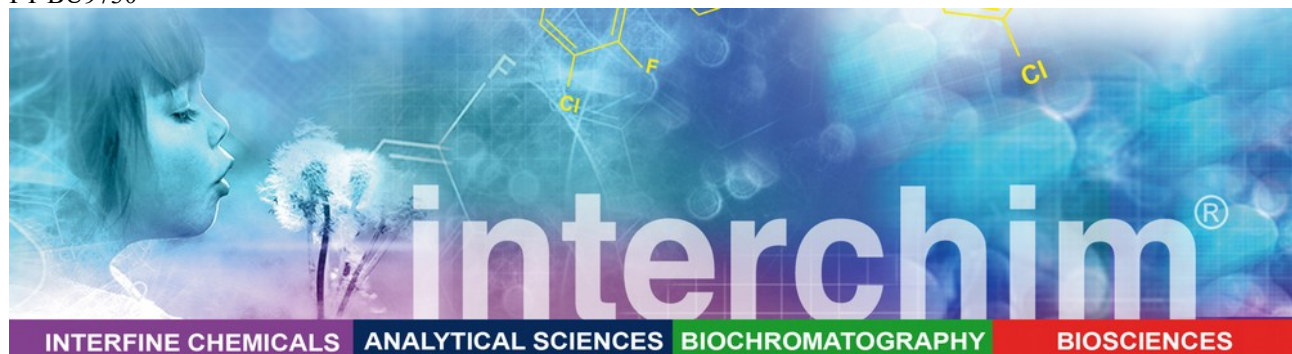


FT-BU9730

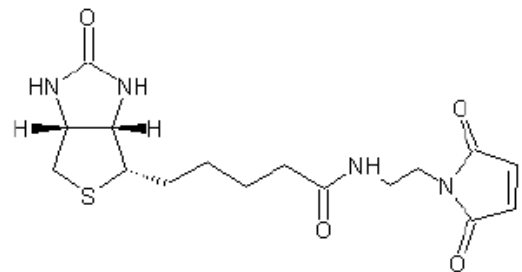


Biotin-C2-maleimide

Excellent thiol-reactive biotin with a moderate spacer for better avidin-binding

Product Description

Name :	Biotin-C2-maleimide
Catalog Number :	BU9730 25 mg
Molecular Weight :	366,44
Properties:	Solubility: DMSO, DMF Abs : <300 nm EM : none



Storage:
-20°C and desiccated

Introduction

Biotin C2 maleimide readily reacts with thiol moieties of biopolymers to form thioether conjugate that is quite stable. This biotin maleimide requires mild conjugation conditions. For example, pH of 5.5–8.5 is usually optimal for modifying cysteine residues, and air exposure of reaction solution should be minimized whenever possible to avoid the air oxidation of thiol substrates. Most conjugations are done at room temperature. However, either elevated or reduced temperature may be required for a particular labeling reaction. Reactions with this biotinylation reagent should be performed in buffers free of extraneous thiols (such as 6-mercaptoethanol, dithiothreitol and mercaptoethylamine). Proteins or peptides to be biotinylated by thiol-reactive reagents must have a free thiol group (SH) available.

Directions for use

Guidelines for use

A cystein residue can be incorporated at the N-terminus of peptides during the synthesis. If the peptide does not contain free sulfhydryls, this group can be introduced with Traut's reagent (#UP42425).

- 1- Prepare a solution of Maleimido-Biotin at 40mM (18mg/ml) in DMF or DMSO.
- 2- Prepare the peptide solution at 10mM in PBS (NaCl 150mM, phosphate 20mM pH7.5)
Lyophilised peptides can simply dissolved in PBS provided there is no preservatives. Proteins in solution can be dialysed or gelfiltrated.
- 3- Add 250µl of Maleimido-Biotin solution per ml of peptide to label. Mix and Incubate for 30min at room temperature.
The incubation duration may be shortened or increased for optimal results in some applications.
- 4- Desalt the biotinylated peptide by reverse-phase, gelfiltration or any suitable technique.

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FT-BU9730

Related / associated products and documents

- Traut's reagent (#[UP42425](#))

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.
Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : Uptima / Interchim; Hotline : +33(0)4 70 03 73 06

Disclaimer : Materials from Uptima are sold **for research use only**, and are not intended for food, drug, household, or cosmetic uses.
Uptima is not liable for any damage resulting from handling or contact with this product.

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