

MATERIAL DATA SHEET**Ubiquitin Biotin, *human recombinant*****Cat. # U-570**

Ubiquitin modified with biotin via primary amine coupling. Biotinylation is randomly distributed among the amino-terminus and/or lysine residues at 1-2 biotins per ubiquitin. Biotinylated ubiquitin can be detected or captured using avidin-linked reagents, and has been tested for functionality in a poly-ubiquitin chain formation assay.

Product Information

Quantity:	100 µg, lyophilized powder.
Stock:	Soluble in aqueous buffer up to 50 mg/ml.
MW:	8.6 kDa
Purity:	> 95% by PAGE

Use & Storage

Use:	Depending on desired assay signal and conditions, biotin-Ub should be used in conjunction with native ubiquitin with a 1:1 to 1:5 ratio of biotin-Ub: native Ub, respectively, with a total combined concentration range of 100-500 µM. Typical amounts for a 20 µL reaction: 5 µg - 15 µg biotin-Ub, 20 µg native ubiquitin. Assessment of ubiquitination performed via avidin-linked detection.
Storage:	Store at -20°C once reconstituted. Avoid multiple freeze/ thaw cycles.

Literature

References:	Corsi D., <i>et al.</i> (1995) <i>J. Biol. Chem.</i> 270 :8928-8935 Mitsui A., <i>et al.</i> (1999) <i>PNAS</i> 96 :6054-6059 Mimnaugh E.G. <i>et al.</i> (1999) <i>Electrophoresis</i> 29 :418-428
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