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Biotin-Ubiquitin

Cat. # E1140, E1141

Also Known as: Biotin-Ub

NCBI Reference: N/A

MW (no tag): 8.9 kDa

Species: Human

Source: Synthetic

Tag: No

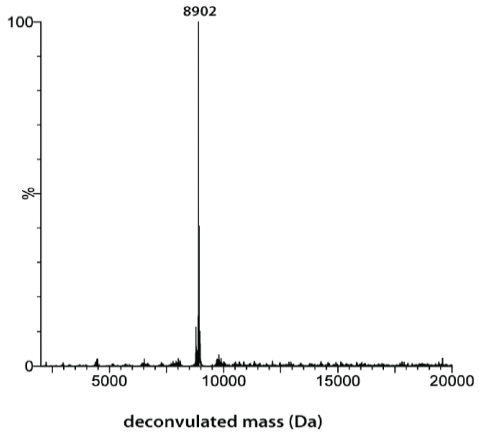
Stock Buffer: 20 mM Tris, pH 7.6 at 4 °C, 100 mM NaCl, 10% glycerol

Concentration: 1 mg/ml in aqueous buffer

Quality Assurance: > 95% by HPLC

Description: A single biotin moiety is covalently conjugated on the N-terminal region of ubiquitin. All lysine residues of ubiquitin are still available for formation of polyubiquitin chains. The high binding affinity between biotin and streptavidin allows the use of biotin-ubiquitin for the following in vitro assays: 1) rapid and efficient purification of polyubiquitinated substrate proteins; 2) monitoring substrate ubiquitination using an HRP-conjugated streptavidin antibody; and 3) setting up high throughput TR-FRET assays to monitor substrate or E3 ubiquitin ligase ubiquitination.

Image:



LC-MS of Biotin-Ubiquitin

Storage: Store at -80°C; avoid multiple freeze-thaw cycles

Use: Depending on ubiquitination assay conditions, biotin-ubiquitin can be mixed with wild type ubiquitin at a combined concentration range of 20-50 µM with a 1:4 to 1:20 ratio of biotin-ubiquitin to wild type ubiquitin.