Lot # XXXXX

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MATERIAL DATA SHEET

Tetra-Ub/Ub4 Non-Hydrolyzable Chains (linear), Agarose
Cat. # UCN-712

This linear ubiquitin fusion protein is resistant to the activity of enzymes (DUB's) that cleave the peptide linkage between adjacent ubiquitin molecules. Ub is not expressed directly as free Ub but rather as linear fusions either to itself or to certain ribosomal protein subunits. These Ub-fusion precursors are proteolyzed by deubiquitinating enzymes (DUBs) at the appropriate junction points to yield active Ub monomers with C-termini ending in GG. There are likely several intracellular DUBs which perform this essential processing role. This product may be useful in analyzing interactions between linear ubiquitin and proteins that contain ubiquitin-associated domains (UBAs) or ubiquitin-interacting motifs (UIMs).

Product Information

Quantity: 250 µl resin supplied as a 50% slurry in 20% ethanol.

Stock: Non-hydrolyzable Ub4 (linear) chains coupled to beads at 2 mg/ml (58 nmol/ml).

Use and Storage

Use: Prepare resin by rinsing with 10 volumes of water to remove ethanol storage buffer. Equilibrate resin by washing with 10 volumes of desired start buffer. Binding and elution of material is dependent on individual experimental conditions and requirements.

Storage: Polyubiquitin-agarose can be re-used if properly maintained. After use, clean resin with a wash cycle of 5 volumes 100 mM HEPES pH 8.0, 500 mM NaCl followed by 5 volumes 100 mM NaOAc pH 4.5, 500 mM NaCl. Repeat twice, then rinse resin with a low salt buffer. Store resin at 4°C in neutral aqueous buffer containing 1 mM NaN_3 or 20 % ethanol as a preservative. DO NOT FREEZE.

Literature

References:

Gerlach B., *et al* (2011) Nature **471**: 591-596
Emmerich C., *et al* (2011) Science Signaling **4**: re5
Sato Y., *et al* (2011) PNAS **108**: 20520-20525

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