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MATERIAL DATA SHEET

Tetra-Ub/Ub4 Non-Hydrolyzable Chains (K63-linked), Agarose Cat. # UCN-312

Linkage specific, non-hydrolyzable tetra-ubiquitin is resistant to the activity of enzymes (DUB's) that cleave the isopeptide linkage between adjacent ubiquitin molecules. It can be used to investigate binding interactions between tetra-ubiquitin and proteins that contain elements such as ubiquitin-associated domains (UBAs), ubiquitin-interacting motifs (UIMs), and CARD domains. This product may also be useful in exploring the role of unanchored poly-ubiquitin chains in some signaling pathways.

Product Information

Quantity:	100 µl resin supplied as a 50% slurry in a solution of 20% ethanol.
Stock:	Non-hydrolyzable Ub4 (K63) chains coupled to beads at 1 mg/ml (29 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:	Zeng W., <i>et al.</i> (2010) <u>Cell</u> 141 : 315-330 Kulathu Y., <i>et al.</i> (2009) <u>Nat. Struct Mol Biol.</u> 16 : 1328-1330 Komander D. (2009) <u>Biochem Soc Trans</u> 37 : 937-953
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