Recombinant Human Linear penta-ubiquitin Protein, His tagged

Cat. No. Ubiquitin-05H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant pentaubiquitin expressed as a linear chain. Amide linkages join the N- and C-terminus of each ubiquitin molecule to each other. This molecule is HIS-tagged at the N-terminus of the most distal ubiquitin.
Species	Human
Source	E.coli
Description	A wide range of cellular processes are modulated through the generation and attachment of polyubiquitin (polyUb) chains to target proteins. Increasing evidence suggests that polyUb chains joined through linear peptide bonds between the C-terminus of a ubiquitin and the N-terminus of another play important functional roles. The enzyme machinery responsible for the generation of linear polyUb chains has been termed LUBAC, consisting of HOIL-1L and HOIP. Chains of these type have been determined to have an open conformation, similar to polyUb K63, but with very distinct functional properties. Linear polyUb chains are cleaved by the deubiquitylases CYLD, USP5 (IsoT), USP2 and have been shown to bind to many UBDs including NEMO and Trabin-n (3xnzf).
Tag	His
Form	Liquid
Molecular Mass	43 kDa

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Purity	> 90 %
Applications	Investigation of binding interactions through pull-down studies. Determining potential deubiquitylase activity towards linear chains.
Storage	At -80 centigrade, avoid freeze/thaw cycles
Storage Buffer	20 mM Tris pH 7.5, 150 mM NaCl, 1 mM EDTA

GENE INFORMATION

Official Symbol	Ub5
Synonyms	Ub5; ubiquitin

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