

6xHis-Non-cleavable K48 PolyUb Chain (2-4)

Cat. # D1700, D1701

Species: Human

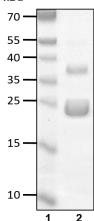
Source: Bacterial recombinant

Tag: 6xHis

Stock Buffer: 20 mM Tris, 150 mM NaCl, 2 mM βME, 10% Glycerol

Concentration: See tube label **Quality Assurance:** ~95% by SDS-PAGE

Image kDa



Coomassie-stained SDS-PAGE

Lane 1: Molecular weight markers

Lane 2: 10 μ g purified 6xHis-Non-cleavable K48 polyUb chain $_{(2-4)}$

Description:

Ub chains are formed by conjugating the C-terminal glycine residue of Ub onto any of seven internal lysine residues or the amino group of the previous Ub. Ub chains are classified by the lysine residue used to link Ubs; different Ub chain topologies can result in different signals. For instance, Ub chains linked through lysine 6, 11, 27, 29, 33 and 48 are capable of targeting proteins for proteasomal degradation; in contrast, Ub chains linked through lysine 63 or the N-terminal amino group (linear Ub chains) often play important nonproteolytic functions including regulation of kinase activation and protein translation. All Ub chain products are produced by using of human wild type Ub reacting with specific E2s.

6xHis-non-cleavable K48 polyUb chains are made of the 6xHis-Ub (L73P) mutant.

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

Note: Ub chains, especially K63-linked ones, often form soluble aggregates even storing at -80°C. If

necessary, urea powder can be added into the stock solution up to 3 M, then keep the stock solution at room temperature for 30 minutes. This treatment has no effect on Ub chain

structure, but breaks soluble Ub chain aggregates.

Literature: 1. Hershko A, et al. (1980) Proc Natl Acad Sci USA 77(4), 1783 – 1786.

2. Pickart CM, (1997) FASEB 11(13), 1055 - 1066.

3. Hershko A, et al. (1998) Ann Rev Biochem 67, 425 – 479.

4. Jiang X, et al. (2012) Nature Reviews Immunology 12, 35 – 48.

