

6xHis-Ubiquitin (L73P)

Cat. # E1940

Also Known as: 6xHis-Ubiquitin (L73P)

NCBI Reference: N/A

MW (no tag): 8.5 kDa

Species: Human

Source: Bacterial recombinant

Tag: 6xHis

Stock Buffer: 20 mM Tris, pH7.6 at 4 °C, 150 mM NaCl, 2 mM βME, 10% Glycerol

Concentration: See tube label

Quality Assurance: >95% by SDS-PAGE

Description: Ubiquitin (Ub) is a 76 amino acid protein widely expressed in the cytoplasmic and nucleus of cells. Ub is posttranslationally conjugated to proteins by the E1, E2, E3 protein ubiquitination cascade. Ub can be conjugated on proteins as monoUb or polyUb chains. Protein ubiquitination plays both proteolytic and nonproteolytic functions. Usually, polyubiquitinated proteins are targeted to the 26S proteasome for proteolysis. Typical concentration to support in vitro ubiquitination is 50-100 μM.

Studies have shown that polyUb chains formed by the Ub(L73P) mutant are resistant to deubiquitination catalyzed by many deubiquitination enzymes.

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

Note: N/A

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.
5. Bremm A, *et al.* (2012) Methods Mol Biol 832, 291 – 228.

