K63-linked Tetra-Ubiquitin

CATALOG #: 6420-25 25 µg

ALTERNATE NAMES: UB4

PURITY: ≥ 95% by SDS-PAGE
Ub-AQUA analysis:
K63: 99.04%
K11: 0.76%
K6: 0.13%
All other linkages ≤ 0.04%

MOL. WEIGHT: 34 kDa

FORMULATION: 1 mg/ml (29 µM) in sterile, deionized water

STORAGE CONDITIONS: Aliquot and store at -80°C. Avoid repeated freezing and thawing cycles.

DESCRIPTION:
Poly-ubiquitination of target proteins through K63 has recently become the focus of intense study. The topology of this linkage type is quite different from polyubiquitin linked through lysine 48. Modification of proteins by K63-linked polyubiquitination has been implicated in, among other cellular processes, the regulation of the DNA damage response, endosomal sorting, autophagy of misfolded/aggregated proteins, and neurodegeneration. These tetra-ubiquitin chains are generated from the enzymatic linkage of wild-type ubiquitin through lysine 63. The most distal ubiquitin contains an arginine substitution for a lysine at position 63, limiting chain length.

RELATED PRODUCTS:

- K48-linked di-ubiquitin **(Cat. No. 6415-50)**
- K48-linked tri-ubiquitin **(Cat. No. 6416-50)**
- K48-linked tetra-ubiquitin **(Cat. No. 6417-25)**
- K63-linked di-ubiquitin **(Cat. No. 6418-50)**
- K63-linked tri-ubiquitin **(Cat. No. 6419-50)**
- K11-linked di-ubiquitin **(Cat. No. 6421-50)**
- K11-linked tri-ubiquitin **(Cat. No. 6422-50)**
- K11-linked tetra-ubiquitin **(Cat. No. 6423-25)**
- Human recombinant Linear di-ubiquitin **(Cat. No. 6424-100)**
- Human recombinant Linear tri-ubiquitin **(Cat. No. 6425-100)**
- Human recombinant Linear tetra-ubiquitin **(Cat. No. 6426-100)**
- Human recombinant Linear penta-ubiquitin **(Cat. No. 6427-100)**
- Di-ubiquitin explorer panel **(Cat. No. 6428-5)**

FOR RESEARCH USE ONLY! Not to be used in humans.