Product Name: K63-linked Tetra-ubiquitin

Alternate Names: Human Lys63-linked tetra-ubiquitin (K63-Ub$_4$, Ub$_4$-K63)

Product Code: TUB-059   **Quantity:** 25 µg

FOR RESEARCE USE ONLY (RUO)

Storage:
Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store ≤ -20°C (stable for 24 months from date of receipt).

Verified Applications / Usage
Poly-ubiquitin chains exhibit diversity in length, linkage type, and associated cellular functions. K63-linked tetra-ubiquitin serves as a valuable reagent in assays involving ubiquitin-binding proteins and as a substrate for ubiquitin-specific deubiquitylating enzymes (DUBs). Optimal enzyme concentrations should be empirically determined based on the specific assay context. Note: Exposure of this product to elevated temperatures in SDS-PAGE sample buffer may lead to anomalous high-molecular-weight smearing during electrophoresis, which does not reflect its actual purity. For improved resolution, we recommend pre-incubation in SDS-PAGE buffer at temperatures below 60 °C for 20 minutes prior to gel loading.

Physical Characteristics

Species: Homo sapiens (Human)   **Predicted MW (kDa):** 34

Source: E.coli BL21(DE3) A.I.   **Purity:** 95%

**Concentration:** 29 µM

Formulation: 10 mM HEPES, pH 7.6

Shipping: The product is shipped with dry ice or equivalent. Upon receipt, store it immediately at the temperature recommended below.

Stability/Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store ≤ -20°C (stable for 24 months from date of receipt).

Quality Assurance

Purity & SDS-PAGE

Protein ID: Ubiquitin
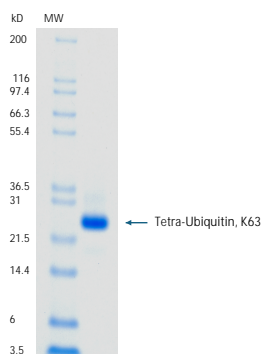
2 µg UBA1 run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Activity Assay

Fully hydrolyzed by the K63-specific AMSH* deubiquitylase

Background

Description

Lys63-linked ubiquitin tetramer linked between glycine 76 of one ubiquitin and lysine 63 of the following ubiquitin

Accession Number: Ub   **Entrez Gene ID:** UBB

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLE
DGRTLSDYNIQKESTLHLVLRLRGG