Product Name: K63-linked Tetra-Ubiquitin

Alternate Names: Human Lys63-linked tetra-ubiquitin (K63-Ub_4, Ub_4-K63)

Product Code: TUB-059

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

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).

Physical Characteristics

Species: Human

Predicted MW (kDa): 34 kDa

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

Purity: 95 %

Tag: N/A

Formulation: 10 mM HEPES, pH 7.6

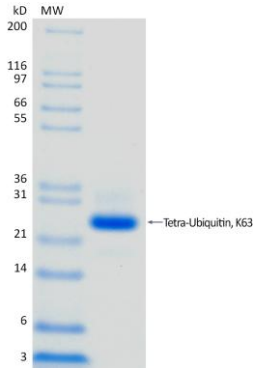
Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

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 K63-linked Tetra-Ubiquitin 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

Enzymatically generated ubiquitin tetramer linked between glycine 76 of one ubiquitin and lysine 63 of the following ubiquitin.

Protein Sequence

UB1:
MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQK
ESTLHLVLRLRGG

UB2:
MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQK
ESTLHLVLRLRGG

UB3:
MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQK
ESTLHLVLRLRGG

UB4:
MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQK
ESTLHLVLRLRGG