

Product Name: K48-linked Tetra-Ubiquitin

Alternate Names: Human Lys48-linked tetra-ubiquitin (Ub₄-K48, K48-tetraUb)

Product Code: TUB-057

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

Polyubiquitin chains exhibit diversity in length, linkage type, and associated cellular functions. K48-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

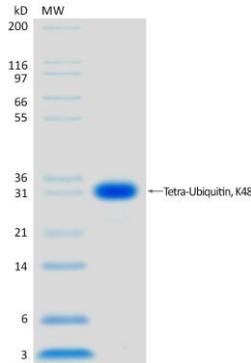
Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

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 K48-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 K48-specific OTUB1* deubiquitylase.

Background

Description

K48-linked ubiquitin tetramer linked between glycine 76 of one ubiquitin and lysine 48 of the following ubiquitin

Protein Sequence

UB1:

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSDYNIQK
ESTLHLVLRRLGG

UB2:

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSDYNIQK
ESTLHLVLRRLGG

UB3:

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSDYNIQK
ESTLHLVLRRLGG

UB4:

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSDYNIQK
ESTLHLVLRRLGG