Product Name: K48-linked Di-ubiquitin

Alternate Names: Human Lys48-linked di-ubiquitin (Ub2K48, Ub2-K48), sometimes abbreviated K48-Ub_2

Product Code: TUB-056 **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 48 months from date of receipt).

Verified Applications / Usage
Poly-ubiquitin chains exhibit diversity in length, linkage type, and associated cellular functions. K48-linked di-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.

Physical Characteristics

Species: Homo sapiens (Human) **Predicted MW (kDa):** 17.1 kDa

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

Concentration: 58 µM

Formulation: 10 mM HEPES, pH 7.6

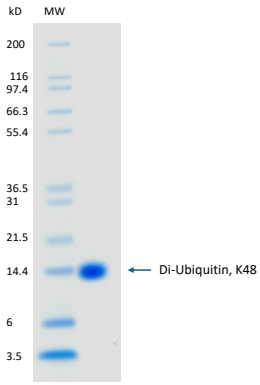
Shipping: The product is shipped with dry ice or equivalent. Upon receipt, store it immediately at the temperature recommended below.

Stability/Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store ≤ -20°C (stable for 48 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 K48-specific OTUB1* deubiquitylase

Background

Description

Lys48-linked ubiquitin dimer linked between glycine 76 of one ubiquitin and lysine 48 of the following ubiquitin

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

Protein Sequence

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLE
DGRTLSDYNIQKESTLHLVLRLRGG