Product Name: TUBE (UBQLN1), His-tag

Alternate Names: TUBE2

Product Code: TAM-060 **Quantity:** 50 µg

FOR RESEARCE USE ONLY (RUO)

Storage:
Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store ≤ -70°C (stable for 24 months from date of receipt)..

Verified Applications / Usage
Recovers K48-linked polyubiquitin using anti-His6 magnetic beads

Physical Characteristics

Species: Homo sapiens (Human) **Predicted MW (kDa):** 21 kDa

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

Concentration: 50 µM

Formulation: 40 mM HEPES, 100 mM NaCl, 10% Glycerol, 1 mM EDTA, 1 mM TCEP, pH 7.6

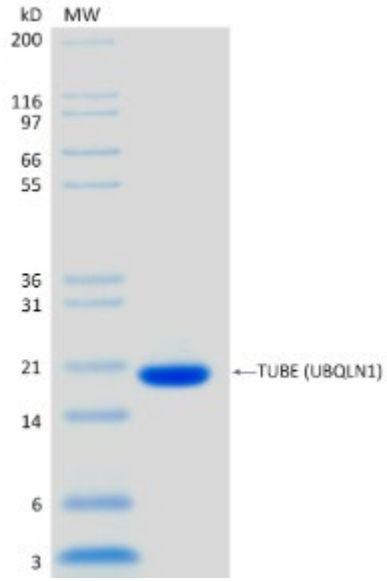
Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Stability/Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store ≤ -70°C (stable for 24 months from date of receipt)..

Quality Assurance

Purity & SDS-PAGE

Protein ID: Ubiquilin-1



2 µg TUBE(UBQLN1) His-tag, run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Activity Assay

Verified in Polyubiquitin Pull-Down Assay

Background

Description

TUBE (UBQLN1) is a synthetic “molecular trap” built by stringing four ubiquitin-associated (UBA) domains from human ubiquilin-1 into a single polypeptide. This tandem architecture boosts affinity for poly-ubiquitin chains by roughly 1000-fold (Kd ≈ 1–10 nM) compared with a lone UBA. TUBEs enable pull-down of poly-ubiquitylated substrates under native conditions, protection of labile ubiquitin signals during lysis and when tagged with dyes, they may be used in polyubiquitin-based proximity assays.

Accession Number: Q9UMX0

Entrez Gene ID: UBQLN1

Protein Sequence

MSHHHHHHGSLEVLFQGPSGCGRFQQQLEQLSAMGFLNREANLQALI
ATGGDINAAIERLLGGSGGSGRFQQQLEQLSAMGFLNREANLQALIATG
GDINAAIERLLGGSGGSGRFQQQLEQLSAMGFLNREANLQALIATGGDI
NAAIERLLGGSGGSGRFQQQLEQLSAMGFLNREANLQALIATGGDINAA
IERLLGS