

Product Name: Ubiquitin, K33 Only

Product Code: TUB-104

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

Recombinant Ubiquitin is activated for use *in vitro* by Recombinant Ubiquitin Activating Enzyme 1 (UBA1). This initial event in the ubiquitin-proteasome cascade requires Mg-ATP and ubiquitin. Appropriate protein concentrations are specific to the application.

Physical Characteristics

Species: Human

Predicted MW (kDa): 8.7 kDa

Source: *E. coli* BL21

Purity: 95 %

Tag: Untagged

Formulation: 10 mM HEPES, pH 7.6

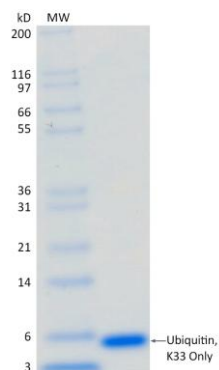
Shipping: The product is shipped with cold packs or dry ice. Upon receipt, store it immediately at the temperature recommended below.

Stability/Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store $\leq -70^{\circ}\text{C}$ (stable for 48 months from date of receipt).

Quality Assurance

Purity & SDS-PAGE

Protein ID: Ubiquitin, K33 Only



2 µg Ubiquitin, K33 Only run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Activity Assay

Verified in Ubiquitin Charging Assay.

Background

Description

Recombinant human Ubiquitin with all lysines mutated to arginine except for lysine 33.

Protein Sequence

MQIFVRTLGTGRITILEVEPSDTIENVRARIQDKEGIPPDQQRLLIFAGRQLEDGRTLSDYNIQR
ESTLHLVLRRLRGG