

**Product Name:** Ubiquitin, K63R

**Product Code:** TUB-098

**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):** 8.6 kDa

**Source:** *E. coli* BL21

**Purity:** 95 %

**Tag:** Untagged

**Formulation:** 10 mM HEPES, pH 7.6

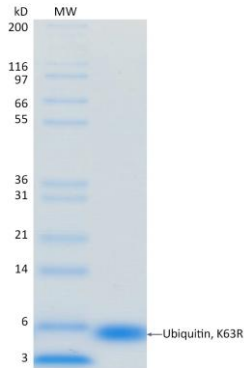
**Shipping:** The product is shipped with cold packs or dry ice. Upon receipt, store it immediately at the temperature recommended below.

**Stability/Storage:** Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store  $\leq -20^{\circ}\text{C}$  (stable for 48 months from date of receipt).

## Quality Assurance

### Purity & SDS-PAGE

**Protein ID:** Ubiquitin, K63R



2 µg Ubiquitin, K63R 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 lysine 63 mutated to arginine.

### Protein Sequence

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSDYNIQR  
ESTLHLVLRGG