

**Product Name:** Ubiquitin, His-tag

**Product Code:** TUB-040

**FOR RESEARCH USE ONLY (RUO)**

**Verified Applications / Usage**

Recombinant His-tagged 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):** 9.7 kDa

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

**Purity:** 95 %

**Tag:** N-His<sub>6</sub>

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

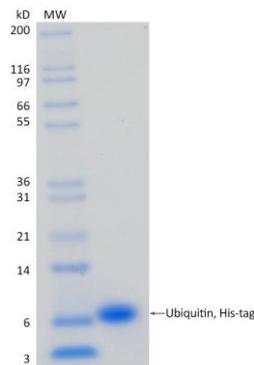
**Shipping:** The product is shipped with cold packs or dry ice. Upon receipt, store it immediately at the temperature recommended below.

**Stability/Storage:** Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store ≤ -20°C (stable for 48 months from date of receipt).

## Quality Assurance

### Purity & SDS-PAGE

Protein ID: Ubiquitin



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

### Activity Assay

Verified in Ubiquitin Charging Assay. Verified to bind to IMAC resin.

## Background

### Description

Ubiquitin with an N-terminal His<sub>6</sub> tag

### Protein Sequence

```
MHHHHHGGSMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGR  
TLDYNIQKESTLHLVLRGG
```