

# Recombinant Human Ubiquitin (K48 only) protein

Catalog No.: RP10076LQ    Recombinant

## Sequence Information

**Species**    **Gene ID**    **Swiss Prot**  
 Human

**Tags**  
 His Tag

**Synonyms**

## Background

Ubiquitin (Ub) is a 76 amino acid protein widely expressed in the cytoplasmic and nucleus of cells. Ub is posttranslationally conjugated to proteins by the E1, E2, E3 protein ubiquitination cascade. Ub can be conjugated on proteins as monoUb or polyUb chains. Protein ubiquitination plays both proteolytic and nonproteolytic functions. Usually, polyubiquitinated proteins are targeted to the 26S proteasome for proteolysis. Typical concentration to support in vitro ubiquitination is 50-100  $\mu$ M. In Ub(K48 only), all lysine residues but lysine 48 were substituted with arginines, thereby it only supports the formation of lysine 48-linked polyubiquitin chains.

## Basic Information

### Description

### Bio-Activity

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -70°C. This product is stable at  $\leq$  -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles.  
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### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

## Product Information

**Source**    **Purification**  
*E. coli*     $\geq 95\%$  as determined by SDS-PAGE.

**Calculated MW**    **Observed MW**

### Endotoxin

Please contact us for more information.

### Formulation

20 mM Tris, 150 mM NaCl, 2 mM  $\beta$ ME, 10% Glycerol

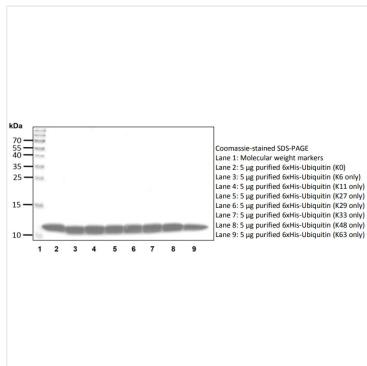
### Reconstitution

## Contact

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## Validation Data

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Recombinant Human Ubiquitin (K48 only)  
protein was determined by SDS-PAGE under  
reducing conditions with Coomassie Blue.