

# Recombinant human URM1 protein

Catalog Number: ATGP0994

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-101aa

### UniProt No.

Q9BTM9

### NCBI Accession No.

NP\_112176

### Alternative Names

ubiquitin-related modifier 1 homolog, C9orf74, MGC2668, RP11-339B21.4

## PRODUCT SPECIFICATION

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### Molecular Weight

13.5 kDa (121aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

uRM1 is ubiquitin-related modifier 1 homolog protein that primarily functions in the post-translational modification of proteins by way of the urmylation pathway. In studies with *Saccharomyces cerevisiae*, it has been found that urm1 covalently binds to its E1 activating enzyme, uba4p, to conjugate alkyl hydroperoxide reductase (Ahp1). It is hypothesized that this complex may then play a role in the oxidative-stress response in mammals. Recombinant human uRM1 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

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## Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH> MAAPLSVEVE FGGAELLFD GIKKHRVTLP GQEEPWDIRN LLIWIKKNLL KERPELFIQG  
DSVRPGILVL INDADWELLG ELDYQLQDQD SVLFISTLHG G

## General References

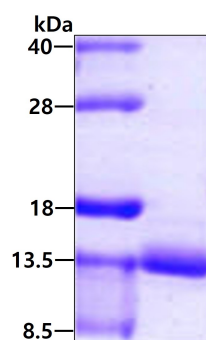
Xu J., et al. (2006) Proc Natl Acad Sci u S A. 103(31):11625-30.

Schlieker CD., et al. (2008) Proc Natl Acad Sci u S A. 105(47):18255-60.

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.