

# Recombinant human USP46/UAF1 protein

Catalog Number: ATGP2553

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-366aa

### UniProt No.

P62068

### NCBI Accession No.

NP\_073743.2

### Alternative Names

ubiquitin carboxyl-terminal hydrolase 46 isoform 1, Deubiquitinating enzyme 46, FLJ12552, ubiquitin carboxyl-terminal hydrolase 46, ubiquitin thioesterase 46, ubiquitin-specific-processing protease 46

## PRODUCT SPECIFICATION

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### Molecular Weight

44.8 kDa (389aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by BRADFORD assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

### Purity

> 90% 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

Modification of cellular proteins by ubiquitin is an essential regulatory mechanism controlled by the coordinated action of multiple ubiquitin-conjugating and deubiquitinating enzymes. uSP46 belongs to a large family of cysteine proteases that function as deubiquitinating enzymes. Recombinant human uSP46 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

<MGSSHHHHHH SSGLVPRGSH MGS>MTVRNIA SICNMGTNAS ALEKDIGPEQ FPINEHYFGL VNFNTCYCN  
SVLQALYFCR PFRENVLAYK AQQKKKENLL TCLADLFHSI ATQKKKVGVI PPKKFISRLR KENDLFDNYM QQDAHEFLNY  
LLNTIADILQ EEKKQEKQNG KLKNGNMNEP AENNKPELTW VHEIFQGTLT NETRCLNCET VSKDEDFLD LSVDVEQNTS  
ITHCLRDFSN TETLCSEQKY YCETCCSKQE AQKRMVKKL PMILALHLKR FKYMEQLHRY TKLSYRVVFP LELRLFNTSS  
DAVNLDRMYD LVAVVVHCGS GPNRGHYITI VKSHGFWLLF DDDIVEKIDA QAIEEFYGLT SDISKNSESG YILFYQSRE

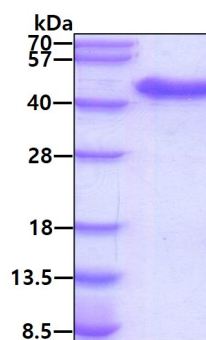
### General References

Fukuo, Y., et al. (2011) J Affect Disord 133 (1-2), 150-157

Zhang, W., et al. (2011) PLoS ONE 6 (10), E26297

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.