

# Recombinant human Otubain-1/OTUB1 protein

Catalog Number: ATGP0354

## PRODUCT INFORMATION

### Expression system

E.coli

### Domain

1-271aa

### UniProt No.

Q96FW1

### NCBI Accession No.

NP\_060140

### Alternative Names

ubiquitin thioesterase Otubain 1, OTB1, OTu1, ubiquitin thioesterase Otubain 1 Deubiquitinating enzyme OTuB1, OTu domain containing ubiquitin aldehyde binding protein 1, Otubain 1, ubiquitin specific processing protease OTuB1, ubiquitin thioesterase OTuB1

## PRODUCT SPECIFICATION

### Molecular Weight

33.4 kDa (291aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

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

### 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

### Description

Otubain 1, also known as OTuB1, is a member of the OuT (ovarian tumor) superfamily of predicted cysteine proteases and inhibits cytokine gene transcription in the immune system via its interaction with a ubiquitin protease and E3 ubiquitin ligase. This protein is a highly specific ubiquitin iso-peptidase, and cleaves ubiquitin from branched poly-ubiquitin chains but not from ubiquitinated substrates. It is proposed to function in specific

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ubiquitin-dependent pathways, possibly by providing an editing function of polyubiquitin chain growth. Recombinant OTuB1 protein was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MAAEEPQQQK QEPLGSDSEG VNCLAYDEAI MAQQDRIQQE IAVQNPLVSE  
RLELSVLYKE YAEDDNIIYQQ KIKDLHKKYS YIRKTRPDGN CFYRAFGFSH LEALLDDSKS LQRFKAVSAK SKEDLVSQGF  
TEFTIEDFHN TFMDLIEQVE KQTSVADLLA SFNDQSTSDY LVVYLRLLS GYLQRESKFF EHFIEGGRTV KEFCQQEVEP  
MCKESDHIHI IALAQALSVS IQVEYMDRGE GGTTNPHIFP EGSEPKVYLL YRPGHYDILY K

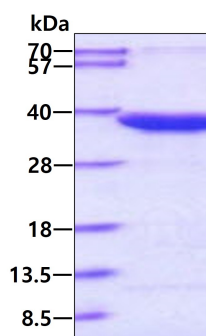
## General References

Balakirev MY., et al. (2003) EMBO Rep. 4(5):517-22.

Soares L., et al. (2004) Nat Immunol. 5(1):45-54.

## DATA

### SDS-PAGE



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