

# Product information



## Otubain 1, 1-271 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0354

**Full Name:** Ubiquitin thioesterase Otubain 1

**NCBI Accession No.:** NP\_060140

**Synonyms:** OTB1, OTU1

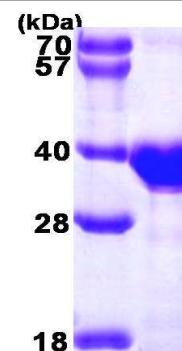
**Description:** Otubain 1, also known as OTUB1, is a member of the OUT (ovarian tumor) superfamily of predicted cysteine proteases and inhibits cytokine gene transcription in the immune system via its interaction with a ubiquitin protease and E3 ubiquitin ligase. This protein is a highly specific ubiquitin iso-peptidase, and cleaves ubiquitin from branched poly-ubiquitin chains but not from ubiquitinated substrates. It is proposed to function in specific 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.

**Form:** Liquid. In 20 mM Tris buffer (pH 8.0) containing 10% glycerol.

**Molecular Weight:** 33.4 kDa (291aa)

**Purity:** > 95% by SDS - PAGE

**Concentration:** 1 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

### Sequences of amino acids:

MGSSHHHHHH SSSLVPRGSH MAAEEPQQK QEPLGSDSEG VNCLAYDEAI MAQQDRIQQE IAVQNPLVSE RLELSVLYKE YAEDDN1YQQ  
KIKDLHKKYS YIRKTRPDGN CFYRAFGFSH LEALLDSDKE LQRFKAVSAK SKEDLVSQGF TEFTIEDFHN TFMDLIEQVE KQTSVADLLA  
SFNDQSTSDY LVVYLRLLTS GYLQRESKFF EHFIEGGRTV KEFCQQEVEP MCKESDHIHI IALAQALSVS IQVEYMDRGE GGTTNPHIFP  
EGSEPKVYLL YRPGHYDILY K

### General references:

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

**WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.**

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

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.  
Avoid repeated freezing and thawing cycles.

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