

Active Recombinant Human OTUB1 Protein, His-tagged

Cat. No. OTUB1-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human OTUB1 protein contains an N-terminal 6-His tag was expressed in E.coli.
Species	Human
Source	E.coli
Description	The product of this gene is a member of the OTU (ovarian tumor) superfamily of predicted cysteine proteases. The encoded protein is a highly specific ubiquitin isopeptidase, and cleaves ubiquitin from branched poly-ubiquitin chains but not from ubiquitinated substrates. It interacts with another ubiquitin protease and an E3 ubiquitin ligase that inhibits cytokine gene transcription in the immune system. It is proposed to function in specific ubiquitin-dependent pathways, possibly by providing an editing function for polyubiquitin chain growth. Alternative splicing results in multiple transcript variants.
Bio-activity	Recombinant Human His6-Otubain-1 is a Ubiquitin-specific deconjugating enzyme. Reaction conditions will need to be optimized for each specific application. We recommend an initial His6-Otubain-1 concentration of 1-5 μ M.
Molecular Mass	32 kDa
Purity	> 95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage Avoid repeated freeze-thaw cycles.
12 months from date of receipt, -70 centigrade as supplied.
3 months, -70 centigrade under sterile conditions after opening.

Storage Buffer X mg/ml (X µM) in 50 mM HEPES pH 7.5, 100 mM NaCl, 1 mM TCEP

GENE INFORMATION

Gene Name OTUB1 OTU deubiquitinase, ubiquitin aldehyde binding 1 [Homo sapiens (human)]

Official Symbol OTUB1

Synonyms OTUB1; OTU deubiquitinase, ubiquitin aldehyde binding 1; OTB1; OTU1; HSPC263; ubiquitin thioesterase OTUB1; OTU domain, ubiquitin aldehyde binding 1; OTU domain-containing ubiquitin aldehyde-binding protein 1; OTU-domain Ubal-binding 1; deubiquitinating enzyme OTUB1; otubain-1; ubiquitin-specific protease otubain 1; ubiquitin-specific-processing protease OTUB1; EC 3.4.19.12

Gene ID 55611

mRNA Refseq NM_017670

Protein Refseq NP_060140

MIM 608337

UniProt ID Q96FW1

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