

## Recombinant Human USP18 Protein, His tagged

**Cat. No.** USP18-149H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human USP18 Protein with His tag was expressed in Baculovirus-Insect Cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	The protein encoded by this gene belongs to the ubiquitin-specific proteases (UBP) family of enzymes that cleave ubiquitin from ubiquitinated protein substrates. It is highly expressed in liver and thymus, and is localized to the nucleus. This protein efficiently cleaves only ISG15 (a ubiquitin-like protein) fusions, and deletion of this gene in mice results in a massive increase of ISG15 conjugates in tissues, indicating that this protein is a major ISG15-specific protease. Mice lacking this gene are also hypersensitive to interferon, suggesting a function of this protein in downregulating interferon responses, independent of its isopeptidase activity towards ISG15.
<b>Molecular Mass</b>	The protein has a calculated MW of 43.8 kDa.
<b>AA Sequence</b>	MHHHHHHSKAFGLLRQICQSILAESSQSPADLEEKKEEDSNMKREQPRERPRAWD YPHGLVGLHNIGQTCCCLNSLIQVFVMNVDFTRILKRITVPRGADEQRRSVPFQMLLLL EKMQDSRQKAVRPLELAYCLQKCNVPLFVQHDAQAQLYLKLNLIKDQITDVHLVERL QALYTIRVKDSLICVDCAMESSRNSSMLTLPLSLFDVDSKPLKTLEDALHCFQPREL SSKSKFCENCCKTRGKQVLKLTLPQTTLIHLMRFSIRNSQTRKICHSLYFPQSLD FSQILPMKRESCDAEEQSGGQYELFAVIAHVGMADSGHYCVYIRNAVDGKWFCFND

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

SNICLVSWEDIQCTYGPNPYHWQETAYLLVYMKMEC

**Purity** > 90% by SDS-PAGE

**Storage** Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Concentration** 0.377 mg/mL

**Storage Buffer** 50 mM Hepes, 200 mM NaCl, pH 7.5, 2 mM DTT, 0.5 mM EDTA, 10% Glycerol

## GENE INFORMATION

**Gene Name** [USP18 ubiquitin specific peptidase 18 \[ Homo sapiens \]](#)

**Official Symbol** [USP18](#)

**Synonyms** USP18; ubiquitin specific peptidase 18; ubiquitin specific protease 18; ubl carboxyl-terminal hydrolase 18; hUBP43; ubl thioesterase 18; ubl thiolesterase 18; 43 kDa ISG15-specific protease; ISG15-specific-processing protease; ISG43; UBP43;

**Gene ID** [11274](#)

**mRNA Refseq** [NM\\_017414](#)

**Protein Refseq** [NP\\_059110](#)

**MIM** [607057](#)

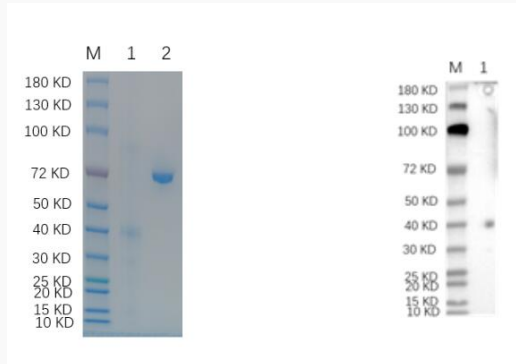
**UniProt ID** [Q9UMW8](#)

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**Reducing 12% SDS-  
PAGE and WB  
analysis profile of  
purified USP18.**



1. USP18-149H
2. BSA

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