

Recombinant Human USP18 Protein, His tagged

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

SPECIFICATION

Product Overview	Recombinant Human USP18 Protein with His tag was expressed in Baculovirus-Insect Cells.
Species	Human
Source	Insect Cells
Description	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.
Molecular Mass	The protein has a calculated MW of 43.8 kDa.
AA Sequence	MHHHHHHSKAFGLLRQICQSILAESSQSPADLEEKKEEDSNMKREQPRERPRAWD YPHGLVGLHNIGQTCCCLNSLIQVFVMNVDFTRILKRITVPRGADEQRRSVPFQMLLLL EKMQDSRQKAVRPLELAYCLQKCNVPLFVQHDAQAQLYLKLWNLIKDQITDVHLVERL QALYTIRVKDSLICVDCAMESSRNSSMLTLPLSLFDVDSKPLKTLEDALHCFQPREL SSKSKCFCENCGKKTRGKQVLKLTHLPQTLTIHLMRFSIRNSQTRKICHSLYFPQSLD FSQILPMKRESCDAEEQSGGQYELFAVIAHVGMADSGHYCVYIRNAVDGKWFCFND

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SNICLVSWEDIQCTYGNPNYHWQETAYLLVYMKMEC

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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