USP14 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	USP14, Recombinant Protein
Full Product Name	Recombinant Human USP14 Protein
Product Gene Name	USP14 recombinant protein
Product Synonym Names	TGT; Ubiquitin carboxyl-terminal hydrolase 14; Deubiquitinating enzyme 14; Ubiquitin thioesterase 14; Ubiquitin-specific-processing protease 14
Sequence	MGSSHHHHHH SSGLVPRGSH MDMTEEQLAS AMELPCGLTN LGNTCYMNAT VQCIRSVPEL KDALKRYAGA LRASGEMASA QYITAALRDL FDSMDKTSSS IPPIILLQFL HMAFPQFAEK GEQGQYLQQD ANECWIQMMR VLQQKLEAIE DDSVKETDSS SASAATPSKK KSLIDQFFGV EFETTMKCTE SEEEEVTKGK ENQLQLSCFI NQEVKYLFTG LKLRLQEEIT KQSPTLQRNA LYIKSSKISR LPAYLTIQMV RFFYKEKESV NAKVLKDVKF PLMLDMYELC TPELQEKMVS FRSKFKDLED KKVNQQPNTS DKKSSPQKEV KYEPFSFADD IGSNNCGYYD LQAVLTHQGR SSSSGHYVSW VKRKQDEWIK FDDDKVSIVT PEDILRLSGG GDWHIAYVLL YGPRRVEIME EESEQ
Host	E Coli
Species Reactivity	Human
Form/Format	Supplied as a 0.2 muM filtered solution of 20mM Tris-HCl, 100mM NaCl, 20% Glycerol, pH 8.0.
Purity/Purification	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Preparation and Storage	Lyophilized protein should be stored at -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 2-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at -20 degree C for 3 months.
Molecular Weight	54,770 Da
OMIM	U30888 mRNA
3D Structure	ModBase 3D Structure for P54578
Endotoxin	Less than 0.1 ng/mug (1 IEU/mug) as determined by LAL test.
Directions for Use	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 mug/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Applications Tested/Suitable for USP14 recombinant protein	ELISA (EIA),Western Blot (WB), SDS-PAGE, Mass Spectrometry (MS)
Related Product Information for USP14 recombinant protein	Recombinant Human USP14 Protein is produced by our E Coli expression system and the target gene encoding Asp91-Gln494 is expressed with a 6His tag at the N-terminus.
Other Notes	Small volumes of USP14 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for USP14 purchase	MBS8249998 is a recombinant protein targeting USP14. Also known as Recombinant Human USP14 Protein. Reactive in Human. Host: E Coli.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for USP14. It may not necessarily be applicable to this product.

NCBI GI #	82880645

NCBI GeneID	9097
NCBI Accession #	NP_001032411.1
UniProt Primary Accession #	P54578
UniProt Secondary Accession #	Q53XY5; B7Z4N8; J3QRZ5
UniProt Related Accession #	P54578
GenBank Nucleotide #	NM_001037334.1
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase 14 isoform b
NCBI Official Synonym Full Names	ubiquitin specific peptidase 14
NCBI Official Symbol	USP14
NCBI Official Synonym Symbols	TGT
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase 14
UniProt Synonym Protein Names	Deubiquitinating enzyme 14; Ubiquitin thioesterase 14; Ubiquitin-specific-processing protease 14
UniProt Gene Name	USP14
UniProt Synonym Gene Names	TGT
UniProt Entry Name	UBP14_HUMAN
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 14
NCBI Summary for USP14	This gene encodes a member of the ubiquitin-specific processing (UBP) family of proteases that is a deubiquitinating enzyme (DUB) with His and Cys domains. This protein is located in the cytoplasm and cleaves the ubiquitin moiety from ubiquitin-fused precursors and ubiquitinylated proteins. Mice with a mutation that results in reduced expression of the ortholog of this protein are retarded for growth, develop severe tremors by 2 to 3 weeks of age followed by hindlimb paralysis and death by 6 to 10 weeks of age. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]
UniProt Comments for USP14	USP14: Proteasome-associated deubiquitinase which releases ubiquitin from the proteasome targeted ubiquitinated proteins. Ensures the regeneration of ubiquitin at the proteasome. Is a reversibly associated subunit of the proteasome and a large fraction of proteasome-free protein exists within the cell. Required for the degradation of the chemokine receptor CXCR4 which is critical for CXCL12-induced cell chemotaxis. Serves also as a physiological inhibitor of endoplasmic reticulum-associated degradation (ERAD) under the non-stressed condition by inhibiting the degradation of unfolded endoplasmic reticulum proteins via interaction with ERN1. Indispensable for synaptic development and function at neuromuscular junctions (NMJs). Homodimer (Potential). Associates with the 26S proteasome. Interacts with FANCC, CXCR4 and ERN1. Belongs to the peptidase C19 family. USP14/UBP6 subfamily. Protein type: EC 3.4.19.12; Protease; Ubiquitin conjugating system; Ubiquitin-specific protease Chromosomal Location of Human Ortholog: 18p11.32 Cellular Component: cell surface; cytoplasm; cytoplasmic vesicle Molecular Function: cysteine-type endopeptidase activity; endopeptidase inhibitor activity; protein binding; tRNA guanylyltransferase activity; ubiquitin-specific protease activity Biological Process: protein deubiquitination; regulation of chemotaxis
Research Articles on USP14	**1.** Results show that USP14 mRNA is overexpressed in hepatocellular carcinoma (HCC) tissues and inversely correlates with miR-4782-3p level which binds to USP14 3'UTR to regulate its expression.
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