

## Recombinant Human USP14, His-tagged

Cat. No. USP14-7221H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human USP14 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>description</b>	USP14 is 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 ubiquitylated 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.
<b>source</b>	E. coli
<b>species</b>	Human
<b>tag</b>	His
<b>form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 20% glycerol, 1mM DTT
<b>molecular mass</b>	58.5 kDa (517aa)

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**aa sequence**

MGSSHHHHHH SSSLVPRGSH MGSMPLYSVT VKWGKEKFEG VELNTDEPPM  
 VFKAQLFALT GVQPARQKVM VKGGTLKDDD WGNIKIKNGM TLLMMGSADA  
 LPEEPSAKTV FVEDMTEEQL ASAMELPCGL TNLGNTCYMN ATVQCIRSVP  
 ELKDALKRYA GALRASGEMA SAQYITAALR DLFDSMDKTS SSIPPIILLQ  
 FLHMAFPQFA EKGEQGQYLQ QDANECWIQM MRVLQQKLEA IEDDSVKETD  
 SSSASAATPS KKKSLIDQFF GVEFETTMKC TESEEEVTK GKENQLQLSC  
 FINQEVKYL F TGLKLRLQEE ITKQSPTLQR NALYIKSSKI SRLPAYLTIQ  
 MVRFFYKEKE SVNKVLKDV KFPLMLDME LCTPELQEKM VSFRSKFKDL  
 EDKKNVQQPN TSDKKSSPQK EVKYEPFSFA DDIGSNNGCY YDLQAVLTHQ  
 GRSSSSGHYV SWVKRKQDEW IKFDDDKVSI VTPEDILRLS GGGDWHIAYV  
 LLYGPRRVEI MEEESEQ

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

**applications** SDS-PAGE

**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.

**concentration** 1 mg/ml

## GENE INFORMATION

**gene name** [USP14 ubiquitin specific peptidase 14 \(tRNA-guanine transglycosylase\) \[ Homo sapiens \]](#)

**official symbol** USP14

**synonyms** USP14; ubiquitin specific peptidase 14 (tRNA-guanine transglycosylase); ubiquitin specific protease 14 (tRNA guanine transglycosylase); ubiquitin carboxyl-terminal hydrolase 14; TGT; ubiquitin thioesterase 14; deubiquitinating enzyme 14; ubiquitin

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thiolesterase 14; ubiquitin-specific processing protease 14; ubiquitin-specific-processing protease 14; tRNA-guanine transglycosylase, 60-kD subunit; ubiquitin specific protease 14 (tRNA-guanine transglycosylase);

**Gene ID** [9097](#)

**mrna refseq** [NM\\_001037334](#)

**protein refseq** [NP\\_001032411](#)

**mim** [607274](#)

**uniprot id** [P54578](#)

**chromosome location** 18p11.32

**function** cysteine-type endopeptidase activity; endopeptidase inhibitor activity; peptidase activity; proteasome binding; protein binding; tRNA guanylyltransferase activity; ubiquitin thiolesterase activity; ubiquitin-specific protease activity;

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