

Recombinant Human USP14, His-tagged

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

SPECIFICATION

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

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aa sequence	MGSSHHHHHH SSGLVPRGSH MGSMPLYSVT VKWGKEKFEG VELNTDEPPM VFKAQLFALT GVQPARQKVM VKGGTLKDDD WGNIKIKNGM TLLMMGSADA LPEEPSAKTV FVEDMTEEQL ASAMELPCGL TNLGNTCYMN ATVQCIRSV ELKDALKRYA GALRASGEMA SAQYITAALR DLFDSDMDKTS SSIPPIILLQ FLHMAFPQFA EKGEQGQYLQ QDANECWIQM MRVLQQKLEA IEDDSVKETD SSSASAATPS KKKSLIDQFF GVEFETTMKC TESEEEVTK GKENQLQLSC FINQEVKYL TGLKLRLQEE ITKQSPTLQR NALYIKSSKI SRLPAYLTIQ MVRFFYKEKE SVNAKVLKDV KFPLMLDMEY LCTPELQEKM VSFRSKFKDL EDKKVNQQPN TSDKKSSPQK EVKYEPFSFA DDIGSNNCGY 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;