

## Active Recombinant Human USP14, His-tagged

**Cat. No.** USP14-159H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human USP14 (amino acid residues 1-494), fused with N-terminal 6His, was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-494 a.a.
<b>Description</b>	USP14 is a proteasome-associated DUB enzyme. Mammalian proteasomes are associated with three DUBs: USP14, UCHL5 (UCH37) and RPN11 (POH1). UCHL5 and USP14 reside on the 19S regulatory particle and remove ubiquitin from the substrate before substrate degradation whereas RPN11's activity is delayed until the proteasome is committed to degrading the substrate (Lee et al., 2010).
<b>Form</b>	50mM HEPES pH7.5, 150mM NaCl <sub>2</sub> , 2mM DTT, 10% Glycerol
<b>Bio-activity</b>	Deubiquitylase Enzyme Assay: His-USP14 has limited activity against the fluorogenic substrate Ubiquitin-Rhodamine110-Glycine. The DUB activity of His-USP14 is known to be potentiated by proteasomes.
<b>Molecular Mass</b>	~58.5kDa
<b>Purity</b>	>60% by SDS-PAGE

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<b>Storage</b>	12 months at -70°C. Avoid multiple freeze/thaw cycles.
<b>Concentration</b>	0.5 mg/ml
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	USP14 ubiquitin specific peptidase 14 (tRNA-guanine transglycosylase) [ Homo sapiens ]
<b>Official Symbol</b>	USP14
<b>Synonyms</b>	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 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);
<b>Gene ID</b>	<a href="#">9097</a>
<b>mRNA Refseq</b>	<a href="#">NM_001037334</a>
<b>Protein Refseq</b>	<a href="#">NP_001032411</a>
<b>MIM</b>	<a href="#">607274</a>
<b>UniProt ID</b>	<a href="#">P54578</a>
<b>Chromosome Location</b>	18p11.32

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**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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