

Active Recombinant Human USP14 Protein

Cat. No. USP14-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human USP14 Protein without tag was expressed in E. coli
Species	Human
Source	E.coli
Description	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 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. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
Bio-activity	Recombinant Human USP14 is a Ubiquitin-specific deconjugating enzyme. The activity of Recombinant Human USP14 was measured at 2.0 RFU/min/μg using an enzyme concentration of 18 μM and a Ub-AMC concentration of 4 μM in 100 mM HEPES, pH 8.5, 10 mM DTT, and 5% Glycerol at 25 degreesC. USP14 activity is greatly stimulated in the presence of 19S proteasome.
Molecular Mass	56 kDa
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain

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Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -70 degreesC as supplied. 3 months, -70 degreesC under sterile conditions after opening.
Storage Buffer	X mg/ml (X µM) in 50 mM HEPES pH 7.5, 50 mM NaCl, 5 mM DTT, 1 mM EDTA
Shipping	The product is shipped with dry ice or equivalent.
GENE INFORMATION	
Gene Name	USP14 ubiquitin specific peptidase 14 [Homo sapiens (human)]
Official Symbol	USP14
Synonyms	USP14; ubiquitin specific peptidase 14; TGT; ubiquitin carboxyl-terminal hydrolase 14; deubiquitinating enzyme 14; tRNA-guanine transglycosylase, 60-kD subunit; ubiquitin specific peptidase 14 (tRNA-guanine transglycosylase); ubiquitin specific protease 14 (tRNA-guanine transglycosylase); ubiquitin thioesterase 14; ubiquitin thiolesterase 14; ubiquitin-specific processing protease 14; EC 3.4.19.12
Gene ID	9097
mRNA Refseq	NM_005151
Protein Refseq	NP_005142
MIM	607274
UniProt ID	P54578