Recombinant Human USP14 Protein (Q96-Q494), Tag Free

Cat. No. USP14-0900H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human USP14(Q96-Q494 end) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Q96-Q494
Description	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). Plays a role in the innate immune defense against viruses by stabilizing the viral DNA sensor CGAS and thus inhibiting its autophagic degradation.
Form	Liquid
Endotoxin	< 0.01 EU per μg of the protein
Purity	90%

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Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	USP14 ubiquitin specific peptidase 14 (tRNA-guanine transglycosylase) [Homo sapiens (human)]
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 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

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UniProt ID	P54578

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