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# **Recombinant Human USP14 Protein (His Tag)**

Catalog No. PKSH033174

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### Description

Ubiquitin Carboxyl-Terminal Hydrolase 14; Deubiquitinating Enzyme 14; Ubiquitin **Synonyms** 

Thioesterase 14; Ubiquitin-Specific-Processing Protease 14; USP14; TGT

**Species** Human **Expression Host** E.coli

**Sequence** Asp91-Gln494

P54578 Accession Calculated Molecular Weight 48.5 kDa Observed molecular weight 52 kDa N-His Tag

**Bioactivity** Not validated for activity

## **Properties**

Purity > 85 % as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping** This product is provided as liquid. It is shipped at frozen temperature with blue

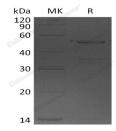
ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 100mM NaCl, 20%

Glycerol, pH 8.0.

Reconstitution Not Applicable

#### Data



> 85 % as determined by reducing SDS-PAGE.

# **Background**

Ubiquitin Carboxyl-Terminal Hydrolase 14 (USP14) belongs to the ubiquitin-specific processing (USP) family which is a deubiquitinating enzyme (DUB) with His and Cys domains. USP14 located in the cytoplasm is a proteasome-associated deubiquitinase which releases ubiquitin from the proteasome targeted ubiquitinated proteins. USP14 acts also as a physiological inhibitor of endoplasmic reticulum-associated degradation (ERAD) under the non-stressed condition by

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inhibiting the degradation of unfolded endoplasmic reticulum proteins via interaction with ERN1. In addition, USP14 is indispensable for synaptic development and function at neuromuscular junctions, required for the degradation of the chemokine receptor CXCR4 which is critical for CXCL12-induced cell chemotaxis.

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