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Datasheet for ABIN7319139 USP14 Protein (His tag)

Overview

Quantity:	50 µg
Target:	USP14
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP14 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human USP14 Protein (His Tag)
Sequence:	Asp91-Gln494
Characteristics:	Recombinant Human Ubiquitin Carboxyl-Terminal Hydrolase 14 is produced by our E.coli expression system and the target gene encoding Asp91-Gln494 is expressed with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	USP14
Alternative Name:	USP14 (USP14 Products)
Background:	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

Target Details

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 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.

Synonym: Ubiquitin Carboxyl-Terminal Hydrolase 14, Deubiquitinating Enzyme 14, Ubiquitin Thioesterase 14, Ubiquitin-Specific-Processing Protease 14, USP14, TGT

Molecular Weight: 48.5 kDa

UniProt: [P54578](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Frozen, Liquid

Buffer: Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 100 mM NaCl, 20 % Glycerol, pH 8.0.

Storage: -20 °C

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