Datasheet for ABIN1097772

USP14 Protein (AA 91-494, C-Term) (His tag)

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Overview

Quantity:	50 µg
Target:	USP14
Protein Characteristics:	AA 91-494, C-Term
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 Ubiquitin Carboxyl-Terminal Hydrolase 14/USP14 (N-6His)
Sequence:	MGSSHHHHHH SSGLVPRGSH MDMTEEQLAS AMELPCGLTN LGNTCYMNAT VQCIRSVPEL KDALKRYAGA LRASGEMASA QYITAALRDL FDSMDKTSSS IPPIILLQFL HMAFPQFAEK GEQGQYLQQD ANECWIQMMR VLQQKLEAIE DDSVKETDSS SASAATPSKK KSLIDQFFGV EFETTMKCTE SEEEEVTKGK ENQLQLSCFI NQEVKYLFTG LKLRLQEEIT KQSPTLQRNA LYIKSSKISR LPAYLTIQMV RFFYKEKESV NAKVLKDVKF PLMLDMYELC TPELQEKMVS FRSKFKDLED KKVNQQPNTS DKKSSPQKEV KYEPFSFADD IGSNNCGYYD LQAVLTHQGR SSSSGHYVSW VKRKQDEWIK FDDDKVSIVT PEDILRLSGG GDWHIAYVLL YGPRRVEIME EESEQ
Characteristics:	Recombinant Human Ubiquitin Carboxyl-Terminal Hydrolase 14/USP14 is produced by our E. coli expression system. The target protein is expressed with sequence (Asp91-Gln494) of Human USP14.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Product Details

Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	USP14
Alternative Name:	usp14 (USP14 Products)
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 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. Alternative Names: Ubiquitin Carboxyl-Terminal Hydrolase 14, Deubiquitinating Enzyme 14, Ubiquitin Thioesterase 14, Ubiquitin-Specific-Processing Protease 14, USP14, TGT
Molecular Weight:	48.45 kDa
UniProt:	P54578

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 100 mM NaCl, 20 % Glycerol, pH 8.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C

Handling

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