Datasheet for ABIN7555938

USP14 Protein (AA 1-494) (His tag)

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Overview

Quantity:	1 mg
Target:	USP14
Protein Characteristics:	AA 1-494
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP14 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant USP14 Protein expressed in mammalian cells.
Sequence:	MPLYSVTVKW GKEKFEGVEL NTDEPPMVFK AQLFALTGVQ PARQKVMVKG GTLKDDDWGN IKIKNGMTLL MMGSADALPE EPSAKTVFVE DMTEEQLASA MELPCGLTNL GNTCYMNATV QCIRSVPELK DALKRYAGAL RASGEMASAQ YITAALRDLF DSMDKTSSSI PPIILLQFLH MAFPQFAEKG EQGQYLQQDA NECWIQMMRV LQQKLEAIED DSVKETDSSS ASAATPSKKK SLIDQFFGVE FETTMKCTES EEEEVTKGKE NQLQLSCFIN QEVKYLFTGL KLRLQEEITK QSPTLQRNAL YIKSSKISRL PAYLTIQMVR FFYKEKESVN AKVLKDVKFP LMLDMYELCT PELQEKMVSF RSKFKDLEDK KVNQQPNTSD KKSSPQKEVK YEPFSFADDI GSNNCGYYDL QAVLTHQGRS SSSGHYVSWV KRKQDEWIKF DDDKVSIVTP EDILRLSGGG DWHIAYVLLY GPRRVEIMEE ESEQ **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

Product Details

	isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	USP14
Alternative Name:	USP14 (USP14 Products)
Background:	Ubiquitin carboxyl-terminal hydrolase 14 (EC 3.4.19.12) (Deubiquitinating enzyme 14) (Ubiquitin thioesterase 14) (Ubiquitin-specific-processing protease 14),FUNCTION: Proteasome-associated deubiquitinase which releases ubiquitin from the proteasome targeted ubiquitinated proteins (PubMed:35145029). Ensures the regeneration of ubiquitin at the proteasome (PubMed:18162577, PubMed:28396413). Is a reversibly associated subunit of the proteasome and a large fraction of proteasome-free protein exists within the cell (PubMed:18162577). Required for the degradation of the chemokine receptor CXCR4 which is critical for CXCL12-induced cell chemotaxis (PubMed:19106094). 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 (PubMed:19135427). Indispensable for synaptic development and function at neuromuscular junctions (NMJs) (By similarity). Plays a role in the innate immune defense against viruses by

Target Details

	stabilizing the viral DNA sensor CGAS and thus inhibiting its autophagic degradation (PubMed:27666593). Inhibits OPTN-mediated selective autophagic degradation of KDM4D and thereby negatively regulates H3K9me2 and H3K9me3 (PubMed:35145029). {ECO:0000250|UniProtKB:Q9JMA1, ECO:0000269|PubMed:18162577, ECO:0000269|PubMed:19106094, ECO:0000269|PubMed:19135427, ECO:0000269|PubMed:27666593, ECO:0000269|PubMed:28396413, ECO:0000269|PubMed:35145029}.
Molecular Weight:	56.1 kDa
UniProt:	P54578

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months