

Datasheet for ABIN7544988
USP18 Protein (AA 1-372) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	USP18
Protein Characteristics:	AA 1-372
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP18 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat USP18 Protein expressed in mammalian cells.
Sequence:	<p>MSKAFGLLRQ ICQSILAESS QSPADLEEK EEDSNMKREQ PRERPAWDY PHGLVGLHNI GQTCCNLNLI QVFVMNVDFTRILKRITVPR GADEQRRSVP FQMLLLEKM QDSRQKAVRP LELAYCLQKC NVPLFVQHDA AQLYLKLNWL IKDQITDVHL VERLQALYTI RVKDSLICVD CAMESSRNSS MLTLPLSLFD VDSKPLKTLE DALHCFQPR ELSSKSKCFC ENCGKKTRGK QVLKLT HLPQ TLTIHLMRFS IRNSQTRKIC HSLYFPQSLD FSQILPMKRE SCDAEEQSGG QYELFAVIAH VGMADSGHYC VYIRNAVDGK WFCFNDSNIC LVSWEIQCT YGNPNYHWQE TAYLLVYMKM EC</p> <p>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.</p>
Characteristics:	Key Benefits:

Product Details

- 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, Western Blot

Grade: custom-made

Target Details

Target: USP18

Alternative Name: USP18 ([USP18 Products](#))

Background: Ubl carboxyl-terminal hydrolase 18 (EC 3.4.19.12) (43 kDa ISG15-specific protease) (hUBP43) (ISG15-specific-processing protease) (Ubl thioesterase 18),FUNCTION: Interferon-induced ISG15-specific protease that plays a crucial role for maintaining a proper balance of ISG15-conjugated proteins in cells (PubMed:11788588). Regulates protein ISGylation by efficiently cleaving ISG15 conjugates linked via isopeptide bonds. Regulates T-cell activation and T-helper 17 (Th17) cell differentiation by deubiquitinating TAK1, likely to keep TAK1-TAB complexes in steady conditions (PubMed:23825189). In turn, restricts activation of NF-kappa-B, NFAT, and JNK as well as expression of IL2 in T-cells after TCR activation (PubMed:23825189). Acts as a molecular adapter with USP20 to promote innate antiviral response through deubiquitinating STING1 (PubMed:27801882). Involved also in the negative regulation of the inflammatory response triggered by type I interferon (PubMed:28165510, PubMed:27325888). Upon recruitment by STAT2 to the type I interferon receptor subunit IFNAR2 interferes with the assembly of the ternary interferon-IFNAR1-IFNAR2 complex and acts as a negative regulator of the type I interferon signaling pathway (PubMed:28165510). {ECO:0000269|PubMed:11788588,

Target Details

ECO:0000269|PubMed:23825189, ECO:0000269|PubMed:27325888,
ECO:0000269|PubMed:27801882, ECO:0000269|PubMed:28165510}, FUNCTION: [Isoform 2]:
Has enzymatic activity similar to isoform 1 and interferes with type I interferon signaling. Major
deISGylation enzyme for nuclear proteins (PubMed:22170061).
{ECO:0000269|PubMed:22170061}.

Molecular Weight: 43.0 kDa

UniProt: [Q9UMW8](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. 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