

USP7 recombinant protein

Recombinant USP7 protein

CATALOG #
AAA59733

HOST
Baculovirus

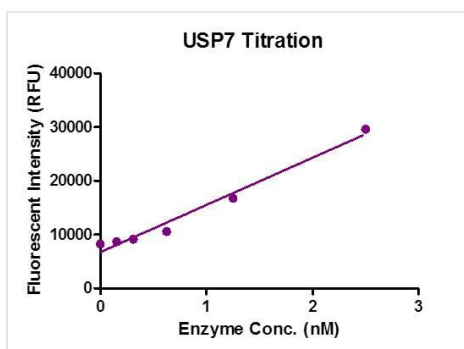
PRODUCT SYNONYMS

USP7; Recombinant USP7 protein; Ubiquitin Specific Peptidase 7; Ubiquitin Specific Peptidase 7 (Herpes Virus-Associated); USP7 recombinant protein

PRODUCT SPECIFICATIONS

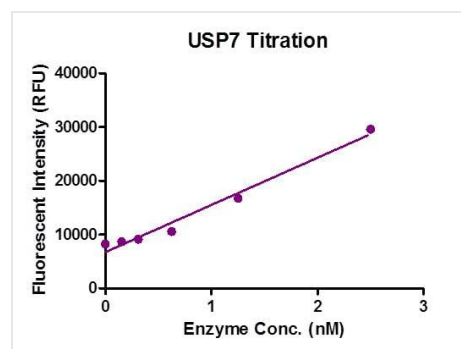
Host	Baculovirus
Purity/Purification	The purity of USP7 protein is >80% by SDS-PAGE.
Form/Format	Recombinant full length USP7 protein is supplied in 25mM Tris-HCl pH8.0, 300mM NaCl, 5% glycerol, 0.04% Triton X-100.
Protein Species	Human
Tag	His-Tag
Notes	This protein is useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



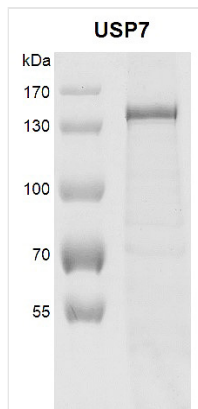
Application Data

DUB-Detector assay for USP7 protein activity 100 nM Fluorescent Substrate was incubated with different concentration of USP7 protein for 1 hour at room temperature. The fluorescent intensity of the reaction was measured with an excitation wavelength of 485 nm and an emission wavelength of 535nm.



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SDS-PAGE

Recombinant USP7 protein gel 8% SDS-PAGE gel stained with Coomassie Blue MW: 131.3 kDa Purity: >80%

ADDITIONAL INFORMATION

Related Product Information for USP7 recombinant protein

Short Description: Recombinant human USP7 was expressed in a baculovirus expression system as the full-length protein (accession number NP_003461.2) with an N-terminal 6xHis-tag. The molecular weight of the protein is 131.3 kDa. The purity of USP7 protein is >80% by SDS-PAGE. It is suitable for analysis of enzyme function and transcription factor regulation as well as for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling.

Background: USP7 (Ubiquitin Specific Peptidase 7 (Herpes Virus-Associated)) belongs to the peptidase C19 family, which includes ubiquitinyl hydrolases. USP7 de-ubiquitinates target proteins such as FOXO4, p53/TP53, MDM2, UHRF1, PTEN and DAXX. Together with DAXX, USP7 prevents MDM2 self-ubiquitination and enhances the E3 ligase activity of MDM2 towards p53/TP53, thereby promoting p53/TP53 ubiquitination and proteasomal degradation. USP7 de-ubiquitinates p53/TP53, preventing degradation of p53/TP53, and enhances p53/TP53-dependent transcription regulation, cell growth repression and apoptosis. USP7 also de-ubiquitinates FOXO4 and inhibits FOXO4-induced transcriptional activity. Together with DAXX, USP7 is involved in the de-ubiquitination and translocation of PTEN from the nucleus to the cytoplasm, both processes that are counteracted by PML. USP7 de-ubiquitinates UHRF1, which prevents its degradation and promoting DNA methylation by DNMT1.

Product Categories/Family for USP7 recombinant protein

[Recombinant Proteins](#); [Transcription](#); [Ubiquitination](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	150378533
NCBI GeneID	7874
NCBI Accession #	NP_003461.2
NCBI GenBank Nucleotide #	NM_003470.2
UniProt Accession #	Q93009 ; A6NMY8 ; B7Z815 ; H0Y3G8
Molecular Weight	– Da
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase 7 isoform 1
NCBI Official Synonym Full Names	ubiquitin specific peptidase 7 (herpes virus-associated)
NCBI Official Symbol	USP7
NCBI Official Synonym Symbols	TEF1; HAUSP
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 7; Herpes virus-associated ubiquitin-specific protease; deubiquitinating enzyme 7; herpesvirus-associated ubiquitin-specific protease; ubiquitin specific protease 7 (herpes virus-associated); ubiquitin thioesterase 7;

UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase 7
UniProt Gene Name	USP7
UniProt Synonym Gene Names	HAUSP
UniProt Entry Name	UBP7_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/usp7-recombinant-protein-baculovirus/59733>