USP7 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	USP7, Blocking Peptide
Full Product Name	USP7 Peptide - middle region
Product Gene Name	USP7 blocking peptide
Product Synonym Gene Name	TEF1; HAUSP
Sequence	Synthetic peptide located within the following region: QFFKSQGYRD GPGNPLRHNY EGTLRDLLQF FKPRQPKKLY YQQLKMKITD
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	USP7 peptide (MBS3247885) is used for blocking the activity of USP7 antibody (MBS3223242)
Molecular Weight	121 kDa
OMIM	602519
Product Categories/Family for USP7 blocking peptide	Peptide
Related Product Information for USP7 blocking peptide	This is a synthetic peptide designed for use in combination with anti- USP7 Antibody, made Target Description: The protein encoded by this gene belongs to the peptidase C19 family, which includes ubiquitinyl hydrolases. This protein deubiquitinates target proteins such as p53 (a tumor suppressor protein) and WASH (essential for endosomal protein recycling), and regulates their activities by counteracting the opposing ubiquitin ligase activity of proteins such as HDM2 and TRIM27, involved in the respective process. Mutations in this gene have been implicated in a neurodevelopmental disorder.
Other Notes	Small volumes of USP7 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for USP7 purchase	MBS3247885 is a blocking peptide targeting USP7. Also known as USP7 Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for USP7. It may not necessarily be applicable to this product.

NCBI GI #	1013061510
NCBI GeneID	7874
NCBI Accession #	NP_001308787.1
UniProt Primary Accession #	Q93009
UniProt Related Accession #	Q93009
GenBank Nucleotide #	NM_003470.2
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase 7 isoform 4

NCBI Official Synonym Full Names	ubiquitin specific peptidase 7
NCBI Official Symbol	USP7
NCBI Official Synonym Symbols	TEF1; HAUSP
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase 7
UniProt Synonym Protein Names	Deubiquitinating enzyme 7; Herpesvirus-associated ubiquitin-specific protease; Ubiquitin thioesterase 7; Ubiquitin-specific-processing protease 7
UniProt Gene Name	USP7
UniProt Synonym Gene Names	HAUSP
UniProt Entry Name	UBP7_HUMAN
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 7
NCBI Summary for USP7	The protein encoded by this gene belongs to the peptidase C19 family, which includes ubiquitinyl hydrolases. This protein deubiquitinates target proteins such as p53 (a tumor suppressor protein) and WASH (essential for endosomal protein recycling), and regulates their activities by counteracting the opposing ubiquitin ligase activity of proteins such as HDM2 and TRIM27, involved in the respective process. Mutations in this gene have been implicated in a neurodevelopmental disorder. [provided by RefSeq, Mar 2016]
UniProt Comments for USP7	USP7: an enzyme that removes ubiquitin from its protein substrates. Binds to the herpes virus protein VMW110 that may therefore modulate its substrate specificity or activity to stabilize viral proteins. Regulates MDM2 and has a dynamic role in the p53-MDM2 pathway. Is reported to deubiquitinate and stabilize p53. Protein type: Ubiquitin-specific protease; Protease; EC 3.4.19.12; Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 16p13.3 Cellular Component: nuclear body; PML body; cytosol; nucleus Molecular Function: protein C-terminus binding; protein binding; p53 binding; cysteine-type endopeptidase activity; ubiquitin protein ligase binding; ubiquitin-specific protease activity; transcription factor binding Biological Process: proteasomal ubiquitin-dependent protein catabolic process; protein deubiquitination; maintenance of DNA methylation; viral reproduction; regulation of transcription factor activity; inhibition of NF-kappaB transcription factor; transcription-coupled nucleotide-excision repair; multicellular organismal development; histone deubiquitination
Research Articles on USP7	**1.** Using NMR analysis and biochemistry study describes the order of activation steps, showing that ubiquitin binding is an instrumental step in USP7 activation.
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