USP7 siRNA – Ubiquitin Carboxyl-Terminal Hydrolase 7 (Rat)

PRODUCT OVERVIEW

Product Name	USP7, siRNA
Full Product Name	USP7 siRNA (Rat)
Product Gene Name	USP7 sirna
Product Synonym Names	HAUSP; Ubiquitin carboxyl-terminal hydrolase 7; Deubiquitinating enzyme 7; Herpesvirus-associated ubiquitin-specific protease; rHAUSP; Ubiquitin thioesterase 7; Ubiquitin-specific-processing protease 7
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	USP7 siRNA (Rat) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	128,431 Da
3D Structure	ModBase 3D Structure for Q4VSI4
Negative Control	siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection.
Quality Control	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.
Directions for Use	We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well).
Components	We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of rat USP7 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo.
Applications Tested/Suitable for USP7 sirna	RNA Interference (RNAi)
Related Product Information for USP7 sirna	MBS8202439 is an siRNA targeting USP7. Also known as USP7 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit USP7 expression using RNA interference
Other Notes	Small volumes of USP7 sirna 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.

ADDITIONAL DETAILS

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

NCBI GI #	67078438

NCBI GeneID	360471
NCBI Accession #	NP_001019961.1
UniProt Primary Accession #	Q4VSI4
UniProt Related Accession #	Q4VSI4
GenBank Nucleotide #	NM_001024790.1
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase 7
NCBI Official Synonym Full Names	ubiquitin specific peptidase 7 (herpes virus-associated)
NCBI Official Symbol	Usp7
NCBI Official Synonym Symbols	Hausp
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase 7
UniProt Synonym Protein Names	Deubiquitinating enzyme 7; Herpesvirus-associated ubiquitin-specific protease; rHAUSP; Ubiquitin thioesterase 7; Ubiquitin-specific-processing protease 7
UniProt Gene Name	Usp7
UniProt Synonym Gene Names	Hausp; rHAUSP
UniProt Entry Name	UBP7_RAT
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 7
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; Ubiquitin conjugating system; Protease; EC 3.4.19.12 Cellular Component: nuclear body; PML body; cytoplasm; cytosol; nucleus Molecular Function: protein C-terminus binding; protein homodimerization activity; p53 binding; cysteine-type endopeptidase activity; ubiquitin protein ligase binding; ubiquitin-specific protease activity; transcription factor binding Biological Process: ubiquitin-dependent protein catabolic process; proteasomal ubiquitin-dependent protein catabolic process; protein deubiquitination; maintenance of DNA methylation; positive regulation of apoptosis; multicellular organismal development; regulation of protein stability; proteolysis; histone deubiquitination; regulation of transcription, DNA-dependent; regulation of transcription factor activity; inhibition of NF-kappaB transcription factor; transcription-coupled nucleotide-excision repair
Research Articles on USP7	**1.** A rat HAUSP from testis was identified and cloned.
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