

# Active Recombinant Full Length Human USP7 protein, His-tagged

**Cat. No.** USP7-490H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human full length USP7(1-1102) fused with N terminal His tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-1102 a.a.
<b>Form</b>	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
<b>Bio-activity</b>	The activity of His-USP7 was validated by determining the increase in fluorescence measured as a result of the enzyme catalysed cleavage of the fluorogenic substrate Ubiquitin-Rhodamine110-Glycine generating Ubiquitin and Rhodamine110-Glycine. Incubation of the substrate in the presence or absence of His-USP7 was compared confirming the deubiquitylating activity of His-USP7.
<b>Molecular Mass</b>	~130 kDa
<b>AA Sequence</b>	MGSSHHHHHSSG LEVLFQGP G S M NHQQQQQQKAGEQQQLSEPEDMEMEAG DTDDPPRITQNPVINGNVALSDGHNTAEEDMEDDTSWRSEATFQFTVERFSRLSES VLSPPCFVRNLPWKIMVMPRFY PDRPHQKSVGFFLQCNAESDSTSWSCHAQAVLKI INYRDDEKSFRRISHLFFHKENDWGFSNFMWSEVTDPEKGFIDDDKVTFEV FVQ ADAPHGVAWDSKKHTGYVGLKNQGATCYMNSLLQLFFFTNQLRKAVYMMPTGDD

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SSKSVPLALQRVIFYELQHSDKPVGTKKLTKSFGWETLDSFMQHVDVQELCRVLLDNV  
 ENKMKGTCVEGTIPKLFGRKGMVSYIQCKEVDYRSDRREDDYDIQLSIKGGKNIFESFV  
 DYVAVEQLDGDNKYDAGEHGLQEAKEGKVKFLTLPPVLHLQLMRFMYDPQTDQNIKI  
 NDRFEFPEQLPLDEFLQKTDPKDPANYILHAVLVHSGDNHGGHYVVYLNPKGDGKW  
 CKFDDDVVSRCTKEEAIEHNYGGHDDLSVRHCTNAYMLVYIRESKLSEVLQAVTD  
 HDIPQQLVERLQEEKRIEAQKRKERQEAHLYMQVQIVAEDQFCGHQGNMYDEEK  
 VKYTVFKVLKNSSLAEFVQSLSQTMGFPQDQIRLWPMQARSNGTKRPAMLDNEAD  
 GNKTMIELSDNENPWTIFLETVDPELAASGATLPKFDKDHDVMLFLKMYDPKTRSLN  
 YCGHIYTPISCKIRDLLPVMCDRAGFIQDTSLLIYEEVKPNLTERIQDYDVSLDKALDEL  
 MDGDIIVFQKDDPENDNSELP TAKEYFRDLYHRVDVIFCDKTIPNDPGFVVTLNRM  
 NYFQVAKTVAQRLNTDPMLLQFFKSQGYRDGPGNPLRHNYEGTLRDLLQFFKPRQ  
 PKKLYYQQLKMKITDFENRRSFKCIWLNSQFREEEITLYPDKHGCVRDLLLEECKKAV  
 ELGEKASGKLRLLLEIVSYKIIGVHQEDELLECLSPATSRTFRIEEIPLDQVIDKENEML  
 VTVAHFHKEVFGTFGIPFLLRIHQGEHFREVMKRIQSLLDIQEKEFEKFKFAIVMTGRH  
 QYINEDEYEVNLKDFEPQPGNMSHPRPWLGLDHFNKAPKRSRYTYLEKAIKIHN

<b>Purity</b>	>80% by SDS-PAGE
<b>Stability</b>	12 months at -70 centigrade; aliquot as required
<b>Storage</b>	Storage at -70 centigrade
<b>Concentration</b>	0.5 mg/ml
<b>Full Length</b>	Full L.


## GENE INFORMATION

<b>Gene Name</b>	USP7 ubiquitin specific peptidase 7 (herpes virus-associated) [ Homo sapiens ]
<b>Official Symbol</b>	USP7

<b>Synonyms</b>	USP7; ubiquitin specific peptidase 7 (herpes virus-associated); HAUSP, ubiquitin specific protease 7 (herpes virus associated); ubiquitin carboxyl-terminal hydrolase 7
<b>Gene ID</b>	7874
<b>mRNA Refseq</b>	NM_003470
<b>Protein Refseq</b>	NP_003461
<b>MIM</b>	602519
<b>UniProt ID</b>	Q93009
<b>Chromosome Location</b>	16p13.3
<b>Pathway</b>	FoxO family signaling, organism-specific biosystem; Herpes simplex infection, organism-specific biosystem; Herpes simplex infection, conserved biosystem; p53 pathway, organism-specific biosystem
<b>Function</b>	cysteine-type endopeptidase activity; p53 binding; peptidase activity; protein C-terminus binding; protein binding

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