

Active Recombinant Full Length Human USP7 protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human full length USP7(1-1102) fused with N terminal His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-1102 a.a.
Form	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
Bio-activity	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.
Molecular Mass	~130 kDa
AA Sequence	MGSSHHHHHHSSG LEVLFQGP G S M NHQQQQQQKAGEQQQLSEPEDMEMEAG DTDDPPRITQNPVINGNVALSDGHNTAEEDMEDDTSWRSEATFQFTVERFSRLSES VLSPPCFVRNLPWKIMVMPRFYPDRPHQKSVGFFLQCNAESDSTSWSCHAQAVLKI INYRDDEKSFRRISHLFFHKENDWGFSNFMWSEVTDPEKGFIDDDKVTFEYFVQ ADAPHGVAWDSKKHTGYVGLKNQGATCYMNSLLQLFFFTNQLRKAVYMMPTGDD

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SSKSVPLALQRVFYELQHSDKPVGTTKLTGSFGWETLDSFMQHSDVQELCRVLLDNV
 ENKMKGTCVEGTIPKLFGRKGMVSYIQCKEVDYRSDRREDYYDIQLSIKGGKNIFESFV
 DYVAVEQLDGDNKYDAGEHGLQEAEGVKFLTLPPVLHLQLMRFMYPQTDQNIKI
 NDRFEFPEQLPLDEFLQKTDPKDPANYILHAVLVHSGDNHGGHYVYLNPKGDGKW
 CKFDDDVSRCTKEEAIEHNYGGHDDLSVRHCTNAYMLVYIRESKLSEVLQAVTD
 HDIPQQLVERLQEEKRIEAQKRKERQEAHLYMQVQIVAEDQFCGHQGNMYDEEK
 VKYTVFKVLKNSSLAEFVQSLSQTMGFPQDQIRLWPMQARSNGTKRPAMLDNEAD
 GNKTMIELSDNENPWTIFLETVDPELAASGATLPKFDKDHVMLFLKMYDPKTRSLN
 YCGHIYTPISCKIRDLLPVMCDRAGFIQDTSLLYEEVKPNLTERIQDYDVSLDKALDEL
 MDGDIIVFQKDDPENDNSELPTAKEYFRDLYHRVDVIFCDKTIPNDPGFVVTLSNRM
 NYFQVAKTVAQRLNTDPMQLLQFFKSQGYRDGPGNPLRHNYEGTLRDLLQFFKPRQ
 PKKLYYQQLKMKITDFENRRSFKCIWLNSQFREEEITLYPDKHGCVRDLLEECKKAV
 ELGEKASGKLRLLEIVSYKIIGVHQEDELLECLSPATSRTFRIEEIPLDQVIDIDKENEML
 VTVAHFHKEVFGTFGIPFLLRIHQGEHFREVMKRIQSLLDIQEKEFEKFKFAIVMTGRH
 QYINEDEYEVLKDFEPQPGNMSHPRPWLGLDHFNKAPKRSRYTYLEKAIKIHN

Purity >80% by SDS-PAGE

Stability 12 months at -70 centigrade; aliquot as required

Storage Storage at -70 centigrade

Concentration 0.5 mg/ml

Full Length Full L.

GENE INFORMATION

Gene Name USP7 ubiquitin specific peptidase 7 (herpes virus-associated) [Homo sapiens]

Official Symbol USP7

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