

Recombinant Human USP7 Protein, His-tagged

Cat. No. USP7-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human USP7 Protein, fused to His-tag, was expressed in E. coli.
Species	Human
Source	E.coli
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.
Form	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol.
Molecular Mass	~130 kDa
AA Sequence	MGSSHHHHHHSSG LEVLFQGP G S M N HQQQQQQQKAGEQQLSEPEDMEMEA GDTD DPPRITQNPVINGNVALSDGHNTAEEDMED DTSWRSEATFQFTVERFSRLS ESVLSPP CFVRNLPWKIMVMPRFYPDRPHQKSVGFLQCNAESDSTWSCHAQA VLKIINYRD DEKSFSSRRISHLFFHKENDWGFSNFMWSEVT DPEKGFIDDDKVTFE VFVQADAPHGVAWDSK KHTGYVGLKNQGATCYMNSLLQTLFFTNQL RKAVYMMP TEGDDSSKSVPLALQRFVYELQHS DKPVGTKKLTGSFGWETLDSFMQHDVQEL CR VLLDNVENKMKGTCVEGTIPKLFRGKM VSYIQCKEVDYRSDRREDYYDIQLSIK GK KNIFESFVDYVAVEQLDGDN KYDAGEHGLQE AEKGVKFLTLPPVLHLQLMRFMYDP

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QTDQNI KINDRFEFPEQLPLDEFLQKTDPKDPANYIL HAVLVHSGDNHGGHYVVYL
 NPKGDGKW CKFDDDVVSRCTKEEAIEHNYGGHDDLS VRHCTNAYMLVYIRESKL
 SEVLQAVTDHDI PQQLVERLQEEKRIEAQKRKERQEAHLYMQVQ IVAEDQFCGHQ
 GNDMYDEEKVKYTVFKVLKNS SLAEFVQSLSQTMGFPQDQIRLWPMQARSNGT K
 RPAMLDNEADGNKTMIELSDNENPWTIFLET VDPELAASGATLPKFDKDHDVMLFL
 KMYDPK TRSLNYCGHIYTPISCKIRDLLPVMCDRAG FIQDTSILYEEVKPNLTERIQ
 DYDVSLDKA LDELMGDGIIVFQKDDPENDNSELPTAKEY FRDLYHRVDVIFCDKTIP
 NDPGFVVTLSNRM NYFQVAKTVAQRLNTDPMLLQFFKSQGYRDG PGNPLRHNYE
 GTLRDLLQFFKPRQPKKLYY QQLKMKITDFENRRSFKCIWLNSQFREEEIT LYPDKH
 GCVRDLLEECKKAVELGEKASGKL RLLEIVSYKIIGVHQEDELLECLSPATSRT FRIE
 EIPLDQVDIDKENEMLVTVAHFHKEV FGTFGIPFLLRIHQGEHFREVMKRIQSLL DIQ
 EKEFEKFKFAIVMTGRHQYINEDEYEYEVN LKDFEPQPGNMSPRPWLGLDHFNKAPK
 RSRY TYLEKAIKIHN

Purity	>80%
Storage	12 months at -70 centigrade; aliquot as required.
Concentration	0.5 mg/ml

GENE INFORMATION

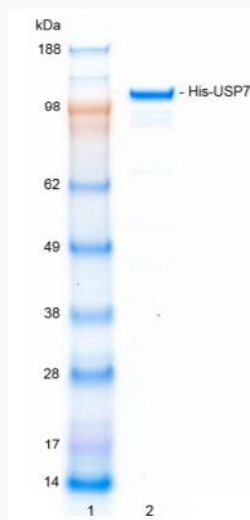
Gene Name	USP7 ubiquitin specific peptidase 7 [Homo sapiens (human)]
Official Symbol	USP7
Synonyms	TEF1; HAUSP; HAFOUS
Gene ID	7874
mRNA Refseq	NM_001286457

Protein Refseq NP_001273386

MIM 602519

UniProt ID Q93009

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Lane 1: MW markers

Lane 2: 1 g His-USP7

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