

Active Recombinant Full Length Human USP1 Protein, His tagged

Cat. No. USP1-40HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	USP1 Protein, Human (His) is the recombinant human-derived USP1, expressed by E. coli , with N-6×His labeled tag.
Species	Human
Source	E.coli
ProteinLength	1-785 aa
Description	This gene encodes a member of the ubiquitin-specific processing (UBP) family of proteases that is a deubiquitinating enzyme (DUB) with His and Cys domains. This protein is located in the cytoplasm and cleaves the ubiquitin moiety from ubiquitin-fused precursors and ubiquitinated proteins. The protein specifically deubiquitinates a protein in the Fanconi anemia (FA) DNA repair pathway. Alternate transcriptional splice variants have been characterized.
Form	Lyophilized Powder
AASequence	MPGVIPSESNGLSRGSPSKKNRLSLKFFQKKETKRALDFTDSQENEEKASEYRASEI DQVVPAAQSSPINCEKRENLLPFVGLNNLGNCTCYLNSILQVLYFCPGFKSGVKHLFNI ISRKKEALKDEANQKDKGNCKEDSLASYELICSLQSLIISVEQLQASFLLNPEKYTDEL ATQPRRLNLTRELNPMYEGYLQHDAQEVLCILGNIQETCQLLKKEEVKNVAELPT KVEEIPHPKEEMNGINSIEMDSMRHSEDFKEKLPGKNGKRKSDTEFGNMKKVKLS KEHQSLEENQRQTRSKRKATSDTLESPPKIIPKYISENESPRPSQKKSrvKINWLKSA

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TKQPSILSKFCSLGKITTNQGVKGQSKENECDEEDLGKCESDNTTNGCGLESPGN
TVTPVNVNEVKPINKGEEQIGFELVEKLFQGGQLVLRTRCLECESLTERREDFQDISVP
VQEDEL SKVEESSEISPEPKTEMKTLRWASQFASVERIVGEDKYFCENCHHYTEAE
RSLLFDKMPEVITIHLCFAASGLEFDCYGGGLSKINTPLLTPKL SLEEWSTKPTNDS
YGLFAVVMHSGITISSGHYTASVKVTDLNSLELDKGNFVVDQMCEIGKPEPLNEEEA
RGVVENYNDEEV SIRVGGNTQPSKVLNKKNVEAIGLLGGQKSKADYELYNKASNP
KVASTAFAENRNSETSDTTGTHESDRNKESSDQTGINISGFENKISYVVQSLKEYEG
KWLLFDDSEVKVTEEKDFLNSLSPSTSPTSTPYLLFYKKL

Molecular Mass	Approximately 97 kDa
Bio-activity	Measured by the hydrolysis of Ubiquitin-AMC that incubate at 37 centigrade in kinetic mode for 5 minutes. The specific activity is 26.711 pmol/min/μg.
Endotoxin	<1 EU/μg, determined by LAL method.
Storage	Stored at -20 centigrade for 2 years from date of receipt. After reconstitution, it is stable at 4 centigrade for 1 week or -20 centigrade for longer (with carrier protein). It is recommended to freeze aliquots at -20 or -80 centigrade for extended storage.
Storage Buffer	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Shipping	Room temperature in continental US; may vary elsewhere.

GENE INFORMATION

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Gene Name	USP1 ubiquitin specific peptidase 1 [Homo sapiens (human)]
Official Symbol	USP1
Synonyms	USP1; ubiquitin specific peptidase 1; UBP; ubiquitin carboxyl-terminal hydrolase 1; Ubiquitinyl hydrolase 1, Ubiquitin carboxyl-terminal hydrolase 1, ubiquitin thiolesterase 1; deubiquitinating enzyme 1; hUBP; ubiquitin specific processing protease 1; ubiquitin specific protease 1; ubiquitin thiolesterase 1; ubiquitin thiolesterase 1; EC 3.4.19.12
Gene ID	7398
mRNA Refseq	NM_003368
Protein Refseq	NP_003359
MIM	603478
UniProt ID	O94782

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