

Recombinant Active Human USP1 Protein, GST-tagged

Cat. No. USP1-78H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human full-length USP1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Insect Cells
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.
Molecular Mass	Approx 130 kDa
Purity	> 75%
Stability	One year at -70 centigrade from data of shipment.
Storage	Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.05 µg/µL

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Storage Buffer	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 25% glycerol.
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Shipping	Dry ice
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GENE INFORMATION

Gene Name	USP1 ubiquitin specific peptidase 1 [Homo sapiens (human)]
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Official Symbol	USP1
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Synonyms	USP1; ubiquitin specific peptidase 1; 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 thioesterase 1; ubiquitin thiolesterase 1; EC 3.4.19.12
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Gene ID	7398
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mRNA Refseq	NM_003368
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Protein Refseq	NP_003359
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MIM	603478
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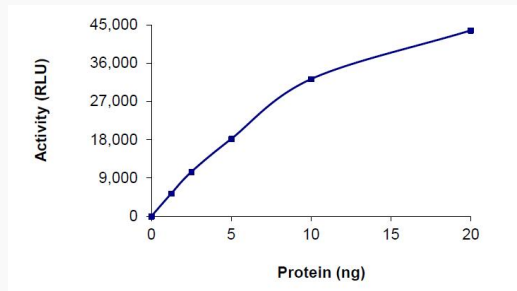
UniProt ID	O94782
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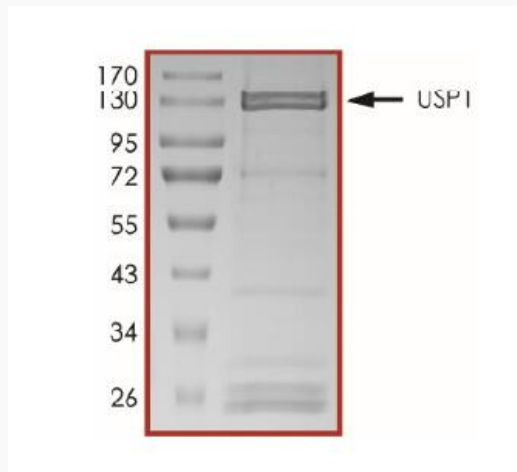
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Specific Activity



The specific activity of usp1 was determined to be 26 nmol/min/mg as per activity assay protocol.

Purity



The purity of USP1 was determined to be >75 % by densitometry.