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 ubiquitinylated 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

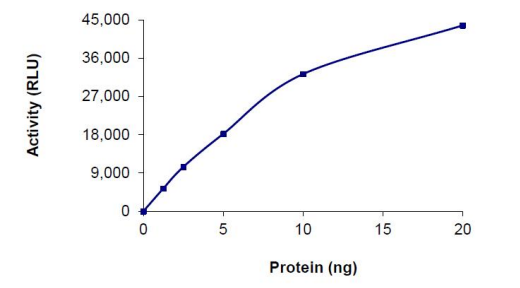
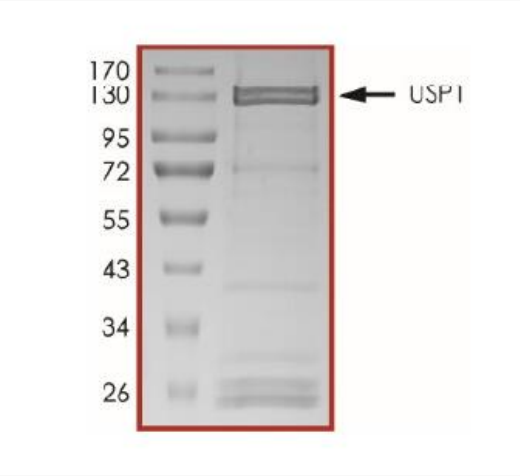
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Storage Buffer	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 25% glycerol.
Shipping	Dry ice

GENE INFORMATION

Gene Name	USP1 ubiquitin specific peptidase 1 [Homo sapiens (human)]
Official Symbol	USP1
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
Gene ID	7398
mRNA Refseq	NM_003368
Protein Refseq	NP_003359
MIM	603478
UniProt ID	O94782

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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.

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