

Active Recombinant Full Length Human USP10 Protein, C-6×His tagged

Cat. No. USP10-11HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human USP10 Protein with a C-terminal 6×His tag was expressed in Spodoptera frugiperda, Sf 21 (Insect cells).
Species	Human
Source	Insect Cells
ProteinLength	1-798 a.a.
Description	Ubiquitin is a highly conserved protein that is covalently linked to other proteins to regulate their function and degradation. This gene encodes a member of the ubiquitin-specific protease family of cysteine proteases. The enzyme specifically cleaves ubiquitin from ubiquitin-conjugated protein substrates. The protein is found in the nucleus and cytoplasm. It functions as a co-factor of the DNA-bound androgen receptor complex, and is inhibited by a protein in the Ras-GTPase pathway. The human genome contains several pseudogenes similar to this gene. Several transcript variants, some protein-coding and others not protein-coding, have been found for this gene.
Bio-activity	Reaction conditions will need to be optimized for each specific application. We recommend an initial His6-USP10 concentration of 20-100 nM in reactions utilizing Ubiquitin-AMC or Ubiquitin-Rhodamine substrates.
Molecular Mass	Predicted Molecular Mass: 89 kDa

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Purity	> 90%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -70 centigrade as supplied. 3 months, -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a solution in HEPES, NaCl, TCEP, and Glycerol.
Shipping	The product is shipped with dry ice or equivalent.

GENE INFORMATION

Gene Name	USP10 ubiquitin specific peptidase 10 [Homo sapiens (human)]
Official Symbol	USP10
Synonyms	USP10; ubiquitin specific peptidase 10; UBPO; ubiquitin carboxyl-terminal hydrolase 10; deubiquitinating enzyme 10; ubiquitin specific protease 10; ubiquitin thioesterase 10; ubiquitin thiolesterase 10; ubiquitin-specific-processing protease 10; EC 3.4.19.12
Gene ID	9100
mRNA Refseq	NM_005153
Protein Refseq	NP_005144
MIM	609818
UniProt ID	Q14694

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