

Recombinant Human USP10 Protein, His-tagged

Cat. No. USP10-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human USP10(Leu45~Asp514) fused with His tag at C-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	45-514 a.a.
Description	Ubiquitin carboxyl-terminal hydrolase 10 (USP10) is a specialized cysteine protease with a predicted molecular weight of 87 kDa. USP10 is a member of the peptidase C19 family and the human protein shares 83% amino acid sequence identity with its mouse ortholog. Reported USP10 targets include p53, BECN1, SNX3 and CFTR. USP10 translocates to the nucleus in response to DNA damage and deubiquitinates p53, thus regulating the p53-dependent DNA damage response. USP10 deubiquitination of BECN1 leads to stabilization of PIK3C3/VPS34-containing complexes which drives autophagy. The small molecule Spautin-1 exerts its potent inhibitory effects on autophagy partially through the inhibition of USP10 activity.
Form	X mg/ml (X µM) in 50 mM HEPES pH 7.5, 100 mM NaCl, 10% (v/v) Glycerol, 1 mM TCEP
Molecular Mass	88 kDa
Identity	Reaction conditions will need to be optimized for each specific application. We

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recommend an initial His6-USP10 concentration of 20-100 nM in reactions utilizing Ubiquitin-AMC or Ubiquitin-Rhodamine substrates.

Purity

>90%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.

Stability

Avoid repeated freeze-thaw cycles.
12 months from date of receipt, -70 centigrade as supplied.
3 months, -70 centigrade under sterile conditions after opening.

GENE INFORMATION

Gene Name

USP10 ubiquitin specific peptidase 10 [Homo sapiens]

Official Symbol

USP10

Synonyms

USP10; ubiquitin specific peptidase 10; ubiquitin specific protease 10; ubiquitin carboxyl-terminal hydrolase 10; KIAA0190; UBPO; ubiquitin thioesterase 10; deubiquitinating enzyme 10; ubiquitin thiolesterase 10; ubiquitin-specific-processing protease 10; MGC2621;

Gene ID

9100

mRNA Refseq

NM_005153

Protein Refseq

NP_005144

MIM

609818

UniProt ID

Q14694

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