

Active Recombinant Human USP10, Flag-tagged

Cat. No. USP10-391H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human USP10 fused with an N-terminal FLAG-tag, expressed in a baculovirus-infected Sf9 cell expression system.
Species	Human
Source	Insect Cells
ProteinLength	2-798 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.
Molecular Mass	88 kDa
Formulation	45 mM Tris-HCl, pH 8.0, 124 mM NaCl, 2.4 mM KCl, 90 µg/ml Flag peptide, 10% glycerol, and 3 mM DTT.
Purity	≥60%
Specific Activity	23 pmol/min/µg. Assay conditions: Reaction was performed in 50 mM Tris, pH 7.4, 1

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mM DTT, 0.5 mM EDTA, 500 nM Ub-AMC, and USP10 in a 50 µL reaction. Reaction was incubated at 37 °C for 15 min and fluorescent signal was measured at excitation 340 nm, emission 460 nm.

Applications Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

Storage >6 months at –80 °C

OfficialSymbol USP10

GENE INFORMATION

Gene Name [USP10 ubiquitin specific peptidase 10 \[Homo sapiens\]](#)

Synonyms ubiquitin specific peptidase 10; Ubiquitin-specific-processing protease 10; KIAA0190; MGC2621; UBPO; ubiquitin carboxyl-terminal hydrolase 10; ubiquitin specific protease 10; ubiquitin thioesterase 10; Deubiquitinating enzyme 10; EC 3.4.19.12; Ubiquitin thiolesterase 10

Gene ID [9100](#)

mRNA Refseq [NM_005153](#)

Protein Refseq [NP_005144](#)

MIM [609818](#)

UniProt ID [Q14694](#)

Chromosome Location 16q24.1

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Pathway

cysteine-type peptidase activity; cystic fibrosis transmembrane conductance regulator binding; p53 binding; peptidase activity; protein binding; ubiquitin thiolesterase activity; ubiquitin-specific protease activity

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