

Ubiquitin Conjugating Enzyme 7

Human, Recombinant (rHuUbch7, His6-tagged)

Expressed in *E. coli*

Cat. No. CRP08135

Lot. No. (See product label)



PDB rendering based on 1c4z.
Available structures: [1c4z](#), [1fbv](#)

PRODUCT INFORMATION

Description: Human Ubiquitin Conjugating Enzyme 7 (Ubch7) is a class I enzyme which functions in the stress response and the control of transcription factors. The enzyme is ubiquitously expressed with high levels of expression seen in adult muscle. Ubch7 mediates the selective degradation of short-lived and abnormal proteins and is highly homologous to Ubch5. It has been demonstrated to participate in the ubiquitinylation of p53, c-Fos and NF-κB. Ubch7 is one of two E2s (Ubch5 being the other) with which HECT domain proteins interact with Ubch7 being able to efficiently substitute for Ubch5 in E6-AP-dependent ubiquitinylation.

Amino-Acid Sequence: 162aa. non-glycosylated

M. W. : Approximately 18.9 kDa

Recombinant: Expressed in *E. coli*

Purity: >95% by SDS-PAGE and HPLC analyses.

Formulation: Lyophilized from a 0.2µm filtered concentrated (1mg/ml) solution in 1×PBS, 1mM DTT, pH 7.5.

Endotoxin: Less than 1EU/µg of rHuUbch7 as determined by LAL method.

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.

Storage: This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

FOR RESEARCH USE ONLY

GENE INFORMATION

Gene Name: [UBE2L3](#)

Synonyms: E2-F1; L-UBC; UBCH7; Ubcm4; ubiquitin-conjugating enzyme E2L 3; UB2L3_HUMAN; EC 6.3.2.19; Ubiquitin-protein ligase L3; Ubiquitin carrier protein L3; UBCE7; ubiquitin carrier protein; ubiquitin-conjugating enzyme E2L3; ubiquitin-conjugating enzyme UBCH7; ubiquitin-protein ligase.

mRNA Refseq: [NM_003347](#)

Protein Refseq : [NP_003338](#)

MIM: [603721](#)

UniProt ID: P68036

Gene ID: [7332](#)

Chromosome Location: 22q11.21

Pathway: Parkinson's disease

Function: enzyme binding; ligase activity; small conjugating protein ligase activity; ubiquitin-protein ligase activity.

REFERENCES

1. Blumenfeld N, Gonen H, Mayer A, et al. (1994). Purification and characterization of a novel species of ubiquitin-carrier protein, E2, that is involved in degradation of non-"N-end rule" protein substrates. *J. Biol. Chem.* 269 (13): 9574-81.
2. Robinson PA, Leek JP, Thompson J, et al. (1996). A human ubiquitin conjugating enzyme, L-UBC, maps in the Alzheimer's disease locus on chromosome 14q24.3. *Mamm. Genome* 6 (10): 725-31.

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