

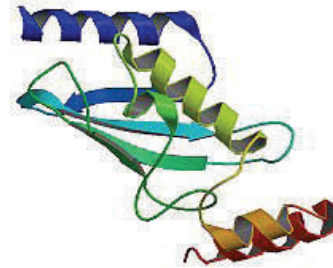
# Ubiquitin Conjugating Enzyme 10

Human, Recombinant (rHuUbch10, His6-tagged)

Expressed in *E. coli*

Cat. No. CRP08137

Lot. No. (See product label)



[PDB](#) rendering based on 1i7k.

Available structures: [1i7k](#)

## PRODUCT INFORMATION

**Description:** Ubch10 is an essential mediator of mitotic destruction events and cell cycle progression. It catalyzes the destruction of cyclins A and B in conjunction with the anaphase-promoting complex, and therefore, plays an important role in the control of the cell exit from mitosis. This activity is essential at the end of mitosis for the inactivation of their partner kinase Cdc2 and exit from mitosis into G1 of the next cell cycle. In addition, Ubch10 bears homology to yeast PAS2, a gene that is essential for biogenesis of peroxisomes. Ubch10 is useful for *in vitro* ubiquitinylation reactions.

**Amino-Acid Sequence:** 191aa. non-glycosylated

**M. W. :** Approximately 21.1 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 rHuUbch10 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:** [UBE2C](#)

**Synonyms:** UBCH10; dJ447F3.2; EC 6.3.2.19; UBE2C-PEN; dJ447F3.2; Highly similar to UBIQUITIN-CONJUGATING ENZYME E2-17 KD [Drosophilamelanogaster]; Ubiquitin carrier protein C; Ubiquitin-conjugating enzyme E2 C; Ubiquitin-protein ligase C; cyclin-selective ubiquitin carrier protein; mitotic-specific ubiquitin-conjugating enzyme; ubiquitin carrier protein E2-C; ubiquitin carrier protein E2C; ubiquitin-conjugating enzyme E2C.

**mRNA Refseq:** [NM\\_007019](#)

**Protein Refseq :** [NP\\_008950](#)

**MIM:** [605574](#)

**UniProt ID:** O00762

**Gene ID:** [11065](#)

**Chromosome Location:** 20q13.12

**Pathway:** Ubiquitin mediated proteolysis; Cell Cycle Checkpoints; Cell Cycle, Mitotic.

**Function:** ligase activity; small conjugating protein ligase activity; ubiquitin-protein ligase activity.

## REFERENCES

1. Tang Z, Li B, Bharadwaj R, et al. (2002). APC2 Cullin protein and APC11 RING protein comprise the minimal ubiquitin ligase module of the anaphase-promoting complex. *Mol. Biol. Cell* 12 (12): 3839–51.
2. Deloukas P, Matthews LH, Ashurst J, et al. (2002). The DNA sequence and comparative analysis of human chromosome 20. *Nature* 414 (6866): 865–71.

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