

## UBE2C/UBCH10, His, Human

**Cat. No.:** Z02968-10

**Size:** 10.0 ug

**Synonyms:** Ubiquitin-conjugating enzyme E2 C, EC 6.3.2.19, Ubiquitin-protein ligase C, Ubiquitin carrier protein C, Ubc10, UBCH10, dJ447F3.2.

### Description:

Human Ubiquitin Conjugating Enzyme E2 C (UBE2C)/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 ubiquitylation reactions.

### Amino Acid Sequence:

```
00001 MHHHHHHAMG IRMASQNRDP AATSVAAARK GAEPSSGAAR
00041 GPVGRKRLQQE LMTLMMSGDK GISAFPESDN LFKWVGTHG
00081 AAGTVYEDLR YKLSLEFPSP YPNAPTVMKF LTPCYHPNVD
00121 TQGNICLDIL KEKWSALYDV RTILLSIQSL LGEPNIDSPL
00161 NTHAAELWKN PTAFFKKYLQE TYSKQVTSQE P
```

**Source:** *E. coli*

**Species:** Human

**Molecular Weight:** Approximately 21.1 kDa, a single non-glycosylated polypeptide chain containing 179 amino acids (a.a.) of human UBE2C/UBCH10 and 12 a.a. vector sequence including 6 × His tag at N-terminus.

**Formulation:** Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

**Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**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.

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

**Endotoxin Level:** Less than 1 EU/µg of rHuUBE2C, His as determined by LAL method.

**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.