

Recombinant Human Ubiquitin Conjugating Enzyme 10, His-tagged

Cat. No. UBE2C-10H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Ubiquitin Conjugating Enzyme 10 produced in E.coli is a 21.1 kDa protein containing 191 amino acids. The Ubc10 protein contains 6 x His tag and is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
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 ubiquitylation reactions.
Physical Appearance	Sterile Filtered white lyophilized powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	Lyophilized from a 0.2 µm filtered concentrated (1 mg/ml) solution in 1XPBS and 1 mM DTT, pH 7.5.

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Solubility	It is recommended to reconstitute the lyophilized Ubc10 in sterile water not less than 100 g/ml, which can then be further diluted to other aqueous solutions.
Stability	Lyophilized Ubc10 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Ubc10 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Pathways	Ubiquitin mediated proteolysis; Cell Cycle Checkpoints; Cell Cycle, Mitotic

GENE INFORMATION

Gene Name	UBE2C ubiquitin-conjugating enzyme E2C [Homo sapiens]
Synonyms	EC6.3.2.19; UBE2C; UBCH10; UbcH10; dJ447F3.2; dJ447F3.2; dJ447F3.2; ubiquitin-conjugating enzyme E2C; ubiquitin-protein ligase C; ubiquitin carrier protein E2-C; Ubiquitin carrier protein C; Ubiquitin-protein ligase C; cyclin-selective ubiquitin carrier protein; OTTHUMP00000031653; OTTHUMP00000031655; mitotic-specific ubiquitin-conjugating enzyme
Gene ID	11065
mRNA Refseq	NM_007019
Protein Refseq	NP_008950
MIM	605574
UniProt ID	O00762
Chromosome	20q13.12

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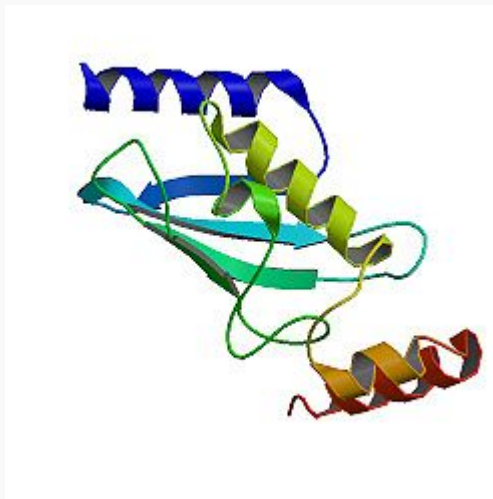
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Location

Function

ATP binding; ligase activity; ubiquitin-protein ligase activity; ubiquitin-protein ligase activity

PDB rendering based on 1i7k.



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