

MATERIAL DATA SHEET**UbcH10/UBE2C, human recombinant****Cat. # E2-654**

Ubiquitin-conjugating Enzyme H10 (UbcH10), also known as Ubiquitin-conjugating Enzyme E2C (UBE2C), is a 179 amino acid (aa) member of the yeast Ubc4/5 family of Ubiquitin-Conjugating Enzymes (E2) and has a predicted molecular weight of 20 kDa. Human UbcH10/UBE2C shares 96% aa sequence identity with mouse and rat UBE2C. UbcH10/UBE2C is an essential mediator of mitotic destruction events and cell cycle progression. UbcH10/UBE2C recognizes TEK sequences in target proteins such as Cyclins A and B, mediates Lys11-linked ubiquitination, and promotes target protein degradation in conjunction with APC/C, a Ubiquitin Ligase (E3). The catalytic activity of UbcH10/UBE2C is regulated by a conserved N-terminal extension, which mediates E2-E3 interaction. UbcH10/UBE2C is overexpressed in a variety of human cancers, and alternate splice isoforms may contribute to uncontrolled cell proliferation and tumor progression.

Product Information

Quantity:	100 µg
Stock:	0.50 mg/ml (25 µM) in 50 mM HEPES, pH 7.0, 200 mM NaCl, 1 mM TCEP, and 10% glycerol
MW:	20 kDa
Purity:	> 95% by SDS-PAGE under reducing conditions and visualized with Colloidal Coomassie Blue stain

Use & Storage

Use:	Recombinant Human UbcH10/UBE2C is a member of the Ubiquitin-conjugating Enzyme (E2) family that receives Ubiquitin from a Ubiquitin-Activating Enzyme (E1) and subsequently interacts with a Ubiquitin ligase (E3) to conjugate ubiquitin to substrate proteins. Reaction conditions will need to be optimized for each specific application. We recommend an initial UbcH10/UBE2C concentration of 0.1-1 µM.
Storage:	Store at -80°C. Avoid multiple freeze-thaw cycles.

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Literature

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