

## Human recombinant UBE2D3 (UbcH5c)

<b>CATALOG #:</b>	6430-3	3 nmol
<b>ALTERNATE NAMES:</b>	Ubiquitin-conjugating enzyme E2 D3, Ubiquitin-protein ligase D3, Ubiquitin carrier protein D3, Ubiquitin-conjugating enzyme E2-17 kDa 3, UBC4/5, UBCH5C, MGC5416, MGC43926, UBE2D3.	
<b>MOL. WEIGHT:</b>	28.707 kDa with a His <sub>6</sub> SUMO Tag	
<b>PURITY:</b>	≥95% by RP-HPLC	
<b>FORMULATION:</b>	75 µL of a 40 µM solution (3 nmoles) in 25 mM Tris, pH 7.5, 150 mM NaCl, 10 mM DTT and 10% glycerol.	
<b>SOLUBILITY:</b>	>3 mg/ml	
<b>ACTIVITY:</b>	Typical enzyme concentration of 100 nM - 1 mM is used for in vitro conjugation, depending on conditions.	
<b>STORAGE CONDITIONS:</b>	Aliquot and store at -80°C. Avoid repeated freezing and thawing cycles.	

### DESCRIPTION:

UBE2D3 (UbcH5b) is an E2 (ubiquitin conjugating enzyme) that is involved in the conjugation of ubiquitin to target substrates along with E1 and E3 enzymes. The UbcH5 family (including UbcH5a and UbcH5c, having 88% and 89% sequence identity with UbcH5b respectively) are the human homologues of the *Saccharomyces cerevisiae* UBC4/5 family (~79% sequence identity). Members of the UbcH5 family have been implicated in a number of inflammatory and cancer pathways including the ubiquitylation of p53 and IκBα with the help of different E3 ligases (Hdm2 and SCF complexes respectively).

### APPLICATIONS

- Identify cognate E2/E3 pairs
- Characterize upregulation/downregulation of E2 enzymes
- Build poly-ubiquitin chains
- Characterize ubiquitin chain specificity of E2 enzymes
- Analyze expression of E2 enzymes

### RELATED PRODUCTS:

- Human recombinant UCHL1 (Cat. No. 6306-100)
- Human recombinant UCHL3 (Cat. No. 6358-100)
- Human recombinant UCHL5 (Cat. No. 6359-100)
- UbcH1, human recombinant (GST-tag) (Cat. No. 4846-10, -100)
- UbcH5a, human recombinant (His-tag) (Cat. No. 4851-10, -100)
- UbcH5b, human recombinant (His-tag) (Cat. No. 4852-10, -100)
- UCHL1, human recombinant (GST-tag) (Cat. No. 4855-50)
- Human recombinant UBE2L3 (UbcH7) (Cat. No. 6431-3)
- Human recombinant UBE2K (UbcH1) (Cat. No. 6432-3)
- Yeast recombinant Ubc13 (UBE2N) (Cat. No. 6433-3)
- Yeast recombinant Mms2 (UEV-2) (Cat. No. 6434-3)
- Human recombinant UBE2D2 (UbcH5b) (Cat. No. 6435-3)
- Human recombinant UBE2R1 (CDC34) (Cat. No. 6436-3)
- Human recombinant UBE2R2 (Ubc3B) (Cat. No. 6437-3)
- Human recombinant UBE2E2 (UbcH8) (Cat. No. 6438-3)
- Human recombinant UBE2E3 (UbcH9) (Cat. No. 6439-3)
- Human recombinant UBE2H (UbcH2) HIS (Cat. No. 6440-3)
- Human recombinant UBE2H (UbcH2), HIS<sub>6</sub>SUMO (Cat. No. 6441-3)

**FOR RESEARCH USE ONLY! Not to be used in humans.**