

Recombinant Human Ubiquitin Conjugating Enzyme E2 D3, His (rHuUBE2D3, His)

PrimeGene Technical Data Sheet

Catalog Number:	501-05
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 17.7 kDa, a single non-glycosylated polypeptide chain containing 147 amino acids (a.a.) of human UBE2D3/UBC5C and 8 a.a. vector sequence including 6 × His tag at N-terminus.
Quantity:	10µg/50µg/1000µg
AA Sequence:	MHHHHHHHAMA LKRINKELSD LARDPPAQCS AGPVGDDMFH WQATIMGPND SPYQGGVFFL TIHFPTDYPF KPPKVAFTTR IYHPNINSNG SICLDILRSQ WSPALTISKV LLSICSLLCD PNPDDPLVPE IARIYKTDRD KYNRISREWTKQYAM
Concentration:	See label.
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Data is not available.
Physical Appearance:	Sterile Colorless liquid.
Formulation:	A 0.2 µm filtered concentrated solution in 50 mM HEPES, pH 6.5, with 125 mM NaCl, 10 % Glycerol, 5 % Trehalose, 1 mM DTT.
Endotoxin:	Less than 1 EU/µg of rHuUBE2D3/UBC5C, His as determined by LAL method.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 6 months from date of receipt, -20 to -70 °C as supplied.● 3 months, -20 to -70 °C under sterile conditions after opening.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.

Human Ubiquitin Conjugating Enzyme E2 D3/UBC5C, His

Ubiquitin-conjugating enzyme E2 D3 belongs to the ubiquitin-conjugating enzyme family and is encoded by the UBE2D3 gene in humans. The ubiquitin-conjugating enzymes, also known as E2 enzymes and more rarely as ubiquitin-carrier enzymes, take part in the second step in the ubiquitination reaction. In this reaction, E1 activates the ubiquitin by covalently attaching the molecule to its active site cysteine residue. The activated ubiquitin is then transferred to an E2 cysteine and then the E2 molecule binds E3 via a structurally conserved binding region. The ubiquitination reaction can modify proteins and regulate protein degradation. The UBE2D3 is a human homolog of the yeast UBC4/5 family and play many important regulatory roles in inflammation and cancer. It mediates the degradation of a myriad of short-lived regulatory proteins (such as p53 in the presence of E6/E6-AP or MDM2, c-Fos, IκBα, p105) and abnormal proteins and has 88% and 89% sequence identity with Ubch5a and Ubch5b respectively.