

Recombinant Human UBE2D3 protein

Cat. No. UBE2D3-2487H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human UBE2D3 protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	155
Description	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.
Form	0.2μm Filtered concentrated solution in 50 mM HEPES, pH 6.5, with 125 mM NaCl, 10 % Glycerol, 5 % Trehalose, 1 mM DTT.

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Molecular Mass	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.
AA Sequence	MHHHHHHAMALKRINKELSDLARDPPAQCSAGPVGDDMFHWQATIMGPNDSPYQ GGVFFLTIHFPTDYPFKPPKVAFTTRIYHPNINSNGSICLDILRSQWSPALTISKVLLSI CSLLCDPNPDDPLVPEIARIYKTD RDKYNRISREWTQKYAM
Endotoxin	Less than 1 EU/g of rHuUBE2D3/UBC5C, His as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.

GENE INFORMATION

Gene Name	UBE2D3
Official Symbol	UBE2D3
Synonyms	UBE2D3; ubiquitin-conjugating enzyme E2D 3; ubiquitin conjugating enzyme E2D 3 (homologous to yeast UBC4/5) , ubiquitin conjugating enzyme E2D 3 (UBC4/5 homolog, yeast); ubiquitin-conjugating enzyme E2 D3; Ubch5C; E2(17)KB 3; ubiquitin-protein ligase D3; ubiquitin carrier protein D3; ubiquitin-conjugating enzyme E2(17)KB 3; ubiquitin-conjugating enzyme E2-17 kDa 3; ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast); ubiquitin-conjugating enzyme E2D 3 (homologous to yeast UBC4/5); UBC4/5; UBCH5C; E2(17)KB3; MGC5416; MGC43926;

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Gene ID	7323
mRNA Refseq	NM_003340
Protein Refseq	NP_003331
MIM	602963
UniProt ID	P61077

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