

Recombinant Human UBE2E3, His-tagged

Cat. No. UBE2E3-112H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human UBE2E3, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	UBE2E3 also known as Ubiquitin-conjugating enzyme E2 E3 is a member of the E2 ubiquitin-conjugating enzyme family. This enzyme is required for the destruction of mitotic cyclins and for cell cycle progression. The ubiquitination process covalently attaches ubiquitin, a short protein of 76 amino acids, to a lysine residue on the target protein. Once a protein has been tagged with one ubiquitin molecule, additional rounds of ubiquitination form a polyubiquitin chain that is recognized by the proteasome's 19S regulatory particle, triggering the ATP-dependent unfolding of the target protein that allows passage into the proteasome's 20S core particle, where proteases degrade the target into short peptide fragments for recycling by the cell.
Form	Liquid, In Phosphate buffered saline (pH7.4) containing 20% glycerol, 1mM DTT
Molecular Mass	25.3kDa (230aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSSDRQR SDDESPSTSS GSSDADQRDP AAPEPEEQEE RKPSATQQKK NTKLSSKTTA KLSTSAKRIQKELAEITLDP PPNCSAGPKG DNIYEWRTI LGPPGSVYEG GVFFLDITFS SDYPPFKPPKV TFRTRIYHCN INSQGVICLD ILKDNWSPAL TISKVLLSIC SLLTDCNPAD

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PLVGSIATQY LTNRAEHDRI ARQWTKRYAT

Purity >80% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name UBE2E3 ubiquitin-conjugating enzyme E2E 3 [Homo sapiens]

Official Symbol UBE2E3

Synonyms UBE2E3; ubiquitin-conjugating enzyme E2E 3; ubiquitin conjugating enzyme E2E 3 (homologous to yeast UBC4/5) , ubiquitin conjugating enzyme E2E 3 (UBC4/5 homolog, yeast); ubiquitin-conjugating enzyme E2 E3; UbCH9; ubiquitin-protein ligase E3; ubiquitin carrier protein E3; ubiquitin-conjugating enzyme E2-23 kDa; ubiquitin-conjugating enzyme E2E 3 (UBC4/5 homolog, yeast); ubiquitin-conjugating enzyme E2E 3 (homologous to yeast UBC4/5); UBCH9; UbcM2;

Gene ID 10477

mRNA Refseq NM_006357

Protein Refseq NP_006348

MIM 604151

UniProt ID Q969T4

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Chromosome Location	2q31.3
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing: Ubiquitination and Proteasome degradation, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem; Immune System, organism-specific biosystem; Protein processing in endoplasmic reticulum, organism-specific biosystem;
Function	ATP binding; acid-amino acid ligase activity; ligase activity; nucleotide binding; ubiquitin-protein ligase activity;

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