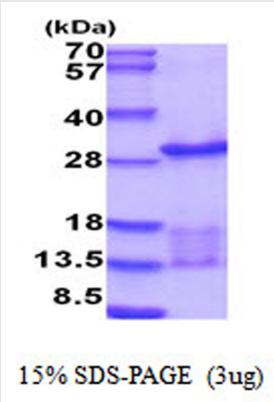
UBE2E3 Recombinant Protein

PRODUCT OVERVIEW

Product Name	UBE2E3, Recombinant Protein
Full Product Name	UBE2E3, 1-207aa, Human, His tag, E Coli
Product Gene Name	UBE2E3 recombinant protein
Product Synonym Names	Ubiquitin-conjugating enzyme E2 E3; UBCH9; UbcM2
Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSSDRQR SDDESPSTSS GSSDADQRDP AAPEPEEQEE RKPSATQQKK NTKLSSKTTA KLSTSAKRIQ KELAEITLDP PPNCSAGPKG DNIYEWRSTI LGPPGSVYEG GVFFLDITFS SDYPFKPPKV TFRTRIYHCN INSQGVICLD ILKDNWSPAL TISKVLLSIC SLLTDCNPAD PLVGSIATQY LTNRAEHDRI ARQWTKRYAT
Host	E Coli
Form/Format	Liquid, In Phosphate buffered saline (pH 7.4) containing 20% glycerol, 1mM DTT
Purity/Purification	> 80% by SDS-PAGE
Concentration	1mg/ml (determined by Bradford assay) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	25.3kDa (230aa), confirmed by MALDI-TOF
OMIM	AB017644 mRNA
3D Structure	ModBase 3D Structure for Q969T4
Antigen Species	Human
Tag Information	His-tag
Product Categories/Family for UBE2E3 recombinant protein	Epigenomics
Applications Tested/Suitable for UBE2E3 recombinant protein	SDS-PAGE
Related Product Information for UBE2E3 recombinant protein	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. Recombinant human UBE2E3, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product References and Citations for UBE2E3 recombinant protein	Nandi, D., et al. (2006) Journal of biosciences 31 (1): 137-55. ; Risseeuw, EP., et al. (2003) cell and molecular biology 34 (6): 753-6.
Other Notes	Small volumes of UBE2E3 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for UBE2E3 purchase	MBS205967 is a recombinant protein targeting UBE2E3. Also known as UBE2E3, 1-207aa, Human, His tag, E Coli. Host: E Coli.



SDS-Page of UBE2E3 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UBE2E3. It may not necessarily be applicable to this product.

NCBI GI #	5454146
NCBI GeneID	10477
NCBI Accession #	NP_006348
UniProt Primary Accession #	Q969T4
UniProt Secondary Accession #	Q5U0R7; Q7Z4W4; B2RAD6; D3DPG3
UniProt Related Accession #	Q969T4
GenBank Nucleotide #	NM_006357.3
NCBI Official Full Name	ubiquitin-conjugating enzyme E2 E3
NCBI Official Synonym Full Names	ubiquitin conjugating enzyme E2 E3
NCBI Official Symbol	UBE2E3
NCBI Official Synonym Symbols	UBCH9; UbcM2
UniProt Protein Name	Ubiquitin-conjugating enzyme E2 E3
UniProt Synonym Protein Names	E2 ubiquitin-conjugating enzyme E3; UbcH9; Ubiquitin carrier protein E3; Ubiquitin-conjugating enzyme E2-23 kDa; Ubiquitin-protein ligase E3
Protein Family	Ubiquitin-conjugating enzyme
UniProt Gene Name	UBE2E3
UniProt Synonym Gene Names	UBCE4; UBCH9
NCBI Protein Information	ubiquitin-conjugating enzyme E2 E3
NCBI Summary for UBE2E3	The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This gene encodes a member of the E2 ubiquitin-conjugating enzyme family. The encoded protein shares 100% sequence identity with the mouse and rat counterparts, which indicates that this enzyme is highly conserved in eukaryotes. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jun 2013]
UniProt Comments for UBE2E3	Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In vitro catalyzes 'Lys-11'- and 'Lys-48'-, as well as 'Lys-63'-linked polyubiquitination. Participates in the regulation of transepithelial sodium transport in renal cells. May be involved in cell growth arrest.

Research Articles on UBE2E3	**1.** Data indicate that ubiquitin-conjugating enzyme UBE2E3 and importin 11 (Imp-11)promote the nuclear accumulation and activity of transcription factor NF-E2 (Nrf2) by restricting the transcription factor from partitioning to the mitochondria.
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