

Recombinant Human ubiquitin-conjugating enzyme E2G 1, His-tagged

Cat. No. UBE2G1-667H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	UBE2G1, 1-170aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-170 a.a.
Description	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. UE2G1 is a member of the E2 ubiquitin-conjugating enzyme family and catalyzes the covalent attachment of ubiquitin to other proteins. The protein may be involved in degradation of muscle-specific proteins. Recombinant human UBE2G1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In Phosphate buffered saline (pH7.4) containing, 30% glycerol, 1mM DTT
Molecular Mass	21.9kDa (193aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMTQLQSA LLLRRQLAEL NKNPVEGFSA GLIDDNDLYR WEVLIIGPPD TLYEGGVFKA HLTFPKDYPL RPPKMKFITE

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IWHPNVDKNG DVCISILHEP GEDKYGYEKP EERWLPIHTV ETIMISVISM
LADPNGDSPA NVDAAKEWRE DRNGEFKRKV ARCVRSQET AFE

Purity >95% 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 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [UBE2G1 ubiquitin-conjugating enzyme E2G 1 \[Homo sapiens \]](#)

Official Symbol UBE2G1

Synonyms UBE2G1; ubiquitin-conjugating enzyme E2G 1; UBE2G, ubiquitin conjugating enzyme E2G 1 (homologous to C. elegans UBC7) , ubiquitin conjugating enzyme E2G 1 (UBC7 homolog, C. elegans) , ubiquitin conjugating enzyme E2G 1 (UBC7 homolog, yeast); ubiquitin-conjugating enzyme E2 G1; UBC7; ubiquitin-protein ligase G1; ubiquitin carrier protein G1; ubiquitin-conjugating enzyme E2G 1 (UBC7 homolog, yeast); ubiquitin-conjugating enzyme E2G 1 (UBC7 homolog, C. elegans); ubiquitin-conjugating enzyme E2G 1 (homologous to C. elegans UBC7); E217K; UBE2G;

Gene ID [7326](#)

mRNA Refseq [NM_003342](#)

Protein Refseq [NP_003333](#)

MIM [601569](#)

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UniProt ID	P62253
Chromosome Location	17p13.2
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; Parkinsons disease, organism-specific biosystem;
Function	ATP binding; acid-amino acid ligase activity; ligase activity; nucleotide binding; ubiquitin protein ligase binding; ubiquitin-protein ligase activity;

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