Recombinant Human UBE2K protein

Cat. No. UBE2K-208H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human UBE2K protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	208
Description	Ubiquitin-conjugating enzyme E2 K belongs to the ubiquitin-conjugating enzyme family and is encoded by the UBE2K 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 UBE2K has been shown to interact with Huntingtin and RNF2. Additionally, it has been implicated in the degradation of huntingtin and suppression of apoptosis.
Form	0.2μm Filtered concentrated solution in 50 mM HEPES, pH 8.0, with 100 mM NaCl, 10 % Glycerol, 5 % Trehalose, 1 mM DTT.
Molecular Mass	Approximately 23.4 kDa, a single non-glycosylated polypeptide chain containing 200 amino acids (a.a.) of human UBE2K and 8 a.a. vector sequence including 6 × His tag at N-terminus.

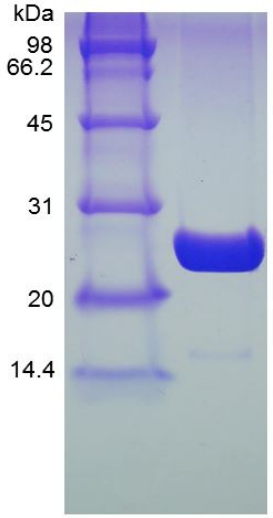
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AA Sequence	MHHHHHHAMANIAVQRIKREFKEVLKSEETSKNQIKVDLVDENFTELRGEIAGPPDT PYEGGRYQLEIKIPETYPFNPPKVRFITKIWHPNISSVTGAICLDILKDQWAAAMTLRT VLLSLQALLAAAEPDDPQDAVVANQYKQNPEMFKQTARLWAHVYAGAPVSSPEYTK KIENLCAMGFDRNAVIVALSSKSWDVETATELLLSN
Endotoxin	Less than 1 EU/μg of rHuUBE2K, 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	UBE2K
Official Symbol	UBE2K
Synonyms	UBE2K; ubiquitin-conjugating enzyme E2K; HIP2, huntingtin interacting protein 2 , ubiquitin conjugating enzyme E2K (UBC1 homolog, yeast); ubiquitin-conjugating enzyme E2 K; HYPG; UBC1; HIP-2; E2(25K); ubiquitin-protein ligase; ubiquitin carrier protein; huntingtin interacting protein 2; huntingtin-interacting protein 2; ubiquitin-conjugating enzyme E2-25K; ubiquitin-conjugating enzyme E2(25K); ubiquitin-conjugating enzyme E2-25 KDA; ubiquitin-conjugating enzyme E2K (UBC1 homolog, yeast); LIG; HIP2; E2-25K; DKFZp564C1216; DKFZp686J24237;
Gene ID	3093
mRNA Refseq	NM_001111112

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Protein Refseq	NP_001104582
MIM	602846
UniProt ID	P61086
SDS-PAGE of UBE2K-208H	

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