

Recombinant Human Ubiquitin-Conjugating Enzyme E2K, His-tagged

Cat. No. UBE2K-1790H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human UBE2K protein, fused to His-tag at N-terminus, was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	Ubiquitin-conjugating enzyme E2 K isoform 1, also known as UBE2K, is a member of the ubiquitin-conjugating enzymes family. These enzymes participate in a variety of cellular processes, including selective protein degradation, DNA repair, cell cycle control, and sporulation. In this mechanism, the ATP-coupled activation and subsequent ligation of ubiquitin are catalyzed by separate enzymes functionally linked by ubiquitin carrier protein UBC1. Also, UBE2K is reportedly involved in Alzheimer's disease, Huntington's disease and protein processing through its interaction with amyloid- β , huntingtin, and MHC-heavy chain proteins.
Concentration	1 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl buffer, pH 7.5, containing 1mM DTT, 10% glycerol and 50mM NaCl.
Purity	> 95% by SDS-PAGE
Sequence	1-200 amino acids: MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD

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KDRWGSMANI AVQRIKREFK EVLKSEETSK NQIKVDLVDENFTELGEIA
GPPDTPYEGG RYQLEIKIPE TYPFNPPKVR FITKIWHPNI SSVTGAICLD
ILKDQWAAAMTLRTVLLSLQ ALLAAAEPDD PQDAVVANQY KQNPEMFKQT
ARLWAHVYAG APVSSPEYTK KIENLCAMGFDRNA

Molecular Mass

26.5 kDa(236aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher).

Applications

SDS-PAGE

Storage

Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

Official Symbol

UBE2K

GENE INFORMATION

Gene Name

[UBE2K ubiquitin-conjugating enzyme E2K \[Homo sapiens \]](#)

Synonyms

UBE2K; ubiquitin-conjugating enzyme E2K; LIG; HIP2; HYPG; UBC1; E2-25K; DKFZp564C1216; DKFZp686J24237; HIP-2; E2(25K); OTTHUMP00000218439; OTTHUMP00000218440; OTTHUMP00000218441; OTTHUMP00000218442; 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); NP_001104582.1; NP_001104583.1; NP_005330.1; EC 6.3.2.19

Gene ID

[3093](#)

mRNA Refseq

[NM_001111112](#)

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Protein Refseq	NP_001104582
MIM	602846
UniProt ID	C9JGP1
Chromosome Location	4p14
Pathway	AdaptiveImmunity Signaling; Antigen processing; Class I MHC mediated antigenprocessing & presentation; Immune System; Innate Immunity Signaling;Negative regulators of RIG-I/MDA5 signaling; RIG-I/MDA5 mediated induction ofIFN-alpha/beta pathways; Ubiquitin mediated proteolysis
Function	ATPbinding; acid-amino acid ligase activity; ligase activity; nucleotidebinding; ubiquitin protein ligase binding; ubiquitin-protein ligase activity;ubiquitin-ubiquitin ligase activity
PDBrendering based on 1yla.	