

Recombinant Human Ubiquitin-conjugating Enzyme E2 K, His

#R00514

Size: 10 µg/100 µg/500 µg

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 6 months from date of receipt, -20 to -70 °C as supplied.
- 3 months, -20 to -70 °C under sterile conditions after opening.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

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.

AA Sequence

MHHHHHHAMANIAVQRIKREFKEVLKSEETSKNQIKV

DLVDENFTELRGEIAGPPDTPYEGGRYQLEIKIPETYP
FNPPKVRFITKIWHPNISSVTGAICLDILKDQWAAAMT
LRTVLLSLQALLAAAEPPDDPQDAVVANQYKQNPEMF
KQTARLWAHVYAGAPVSSPEYTKKIENTLCAMGFDRN
AVIVALSSKSWDVETATELLLSN

Product Specification

Synonyms	HIP-2, Ubiquitin Carrier Protein, Ubiquitin-protein Ligase
Accession	P61086
GeneID	3093
Species	Human
Source	Escherichia coli.
Tags	His
Molecular Weight	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.
Purity	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity	Data is not available.

Physical	Sterile Colorless liquid.
Appearance	
Concentration	See CoA.
Formulation	A 0.2 µm filtered concentrated solution in 50 mM HEPES, pH 8.0, with 100 mM NaCl, 10 % Glycerol, 5 % Trehalose, 1 mM DTT.
Endotoxin	Less than 1 EU/µg of rHuUBE2K, His as determined by LAL method.
