

UBE2K, 1-200aa, Human, His tag, E.coli

Cat.NO.: TP04389

3th Edition

Synonyms:Ubiquitin-conjugating enzyme E2 K isoform 1, HIP2, HYPG, LIG

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 antigen processing through its interaction with amyloid-beta, huntingtin, and MHC-heavy chain proteins. Recombinant human UBE2K protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid. In 20mM Tris-HCl buffer (pH 7.5) containing 1mM DTT, 10% glycerol, 50mM NaCl

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

Sequences:

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSMANIAVQRIKREFKEVLKSEETSKNQIKVDLVDENFTE
LRGEIAGPPDTPYEGGRYQLEIKIPETYPFNPPKVRFITKIWHPNISSVTGAIICLDILKDQWAAAMTLRTVLLSLQALLA
AAEPDDPQDAVVANQYKQNPENFMFKQTARLWAHVYAGAPVSSPEYTKKIENLCAMGFDRNAVIVALSSKSWDVEA
TELLSN

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.