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## Product Data Sheet

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Product Name: UBE2K Human  
 Cat. No.: GP22360  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	HIP2; Huntingtin Interacting protein 2; HYPG; Ubiquitin-conjugating enzyme E2-25K kDa; Ubiquitin-protein ligase; Ubiquitin carrier protein; LIG; HIP-2; E2(25K); DKFZp686J24237; OTTHUMP00000218440; EC 6.3.2.19.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMANI AVQRIKREFK EVLKSEETSK NQIKVDLVDE NFTELRGEIA GPPDTPYEGG RYQLEIKIPE TYPFNPPKVR FITKIWHPNI SSVTGAICLD ILKDQWAAAM TLRTVLLSLQ ALLAAAEPDD PQDAVVANQY KQNPEMFKQT ARLWAHVYAG APVSSPEYTK KIENLCAMGF DRNAVIVAL SSKSWDVETAT ELLLSN.		
Formulation	The UBE2K protein solution (1mg/1ml) is formulated in 20mM Tris-HCl buffer (pH7.5) 1mM DTT, 50mM NaCl, and 10% glycerol.		

### Introduction

UBE2K belongs to the ubiquitin-conjugating enzymes family which take part in many cellular processes such as 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. In addition, UBE2K is involved in Alzheimer's disease, Huntington's disease and antigen processing through its interaction with amyloid- $\beta$ , huntingtin, and MHC-heavy chain proteins.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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UBE2K produced in E.Coli is a single, non-glycosylated polypeptide chain containing 236 amino acids (1-200a.a.) and having a molecular mass of 26.5kDa.UBE2K is fused to a 36 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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