UBE2K Protein, Human (GST)

Cat. No.:	HY-P71405
Synonyms:	Ubiquitin-Conjugating Enzyme E2 K; Huntingtin-Interacting Protein 2; HIP-2; Ubiquitin Carrier Protein; Ubiquitin-Conjugating Enzyme E2-25 kDa; Ubiquitin-Conjugating Enzyme E2(25K); Ubiquitin-Conjugating Enzyme E2-25K; Ubiquitin-Protein Ligase; UBE2K; HIP2; LIG
Species:	Human
Source:	E. coli
Accession:	P61086 (M1-N200)
Gene ID:	3093
Molecular Weight:	Approximately 45.0 kDa

PROPERTIES

AA Sequence	M A N I A V Q R I K R E F K E V L K S E E T S K N Q I K V D L V D E N F T E L R G E I A G P P D T P Y E G G R Y Q L E I K I P E T Y P F N P P K V R F I T K I W H P N I S S V T G A I C L D I L K D Q W A A A M T L R T V L L S L Q A L L A A A E P D D P Q D A V V A N Q Y K Q N P E M F K Q T A R L W A H V Y A G A P V S S P E Y T K K I E N L C A M G F D R N A V I V A L S S K S W D V E T A T E L L L S N
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 50 mM HEPES, 150 mM NaCl, 2 mM DTT, 10% Glycerol, pH 7.5.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	UBE2K, a pivotal component of the ubiquitin-proteasome system, serves as an E2 ubiquitin-conjugating enzyme, playing a crucial role in the covalent attachment of ubiquitin to diverse substrate proteins. In vitro studies reveal its capability to catalyze the synthesis of 'Lys-48'-linked polyubiquitin chains, particularly in the presence or absence of the BRCA1-BARD1 E3 ubiquitin-protein ligase complex. Notably, UBE2K is implicated in mediating the selective degradation of short-lived and aberrant proteins, participating in processes such as endoplasmic reticulum-associated degradation (ERAD) of misfolded lumenal proteins. Furthermore, UBE2K demonstrates ubiquitination activity towards various targets, including huntingtin,

p53/TP53, and potentially NF-kappa-B. Additionally, its involvement in viral infections is suggested, where UBE2K may contribute to the degradation of MHC class I heavy chains and participate in the HPV E7 protein-dependent degradation of RB1.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA