
Product Data Sheet

Product Name: UBE2E3 Human
 Cat. No.: GP22352
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	UBCH9; UbcM2; UBE2E3; Ubiquitin-Conjugating Enzyme E2E 3; UBCH9; Ubiquitin-Conjugating Enzyme E2E 3 (Homologous To Yeast UBC4/5); Ubiquitin-Conjugating Enzyme E2E 3 (UBC4/5 Homolog; Yeast); Ubiquitin-Conjugating Enzyme E2-23 KDa; Ubiquitin Carrier Protein E3; Ubiquitin-Protein Ligase E3; EC 6.3.2.19; Ubiquitin-Conjugating Enzyme E2 E3; UBCE4.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSDRQR SDESPSTSS GSSDADQRDP AAPEPEEQEE RKPSATQQK NTKLSSKTTA KLSTSAKRIQ KELAEITLDP PPNCSAGPKG DNIYEWRTI LGPPGSVYEG GVFFLDITFS SDYPFKPPKV TFRTRIHHCN INSQGVICLD ILKDNWSPAL TISKVLLSIC SLLTDCNPAD PLVGSATQY LTNRAEHDRI ARQWTKRYAT.		
Formulation	UBE2E3 protein solution (1mg/ml) containing Phosphate buffered saline (pH7.4), 20% glycerol and 1mM DTT.		

Introduction

UBE2E3 or Ubiquitin-conjugating enzyme E2 E3 is part of the E2 ubiquitinconjugating enzyme family. UBE2E3 is needed for the destruction of mitotic cyclins and for cell cycle progression. The ubiquitination process covalently attaches to a short protein of 76 amino acids called ubiquitin, to a lysine residue on the target protein. When a protein has been tagged with one ubiquitin molecule, other rounds of ubiquitination form a polyubiquitin chain that is recognized by the proteasome's 19S regulatory particle, triggering the ATP-dependent unfolding of the target protein which grants passage into the proteasome's 20S core particle, where proteases degrade the target into short peptide fragments for recycling by the cell.

Stability

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

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

UBE2E3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 230 amino acids (1-207 a.a) and having a molecular mass of 25.3kDa. UBE2E3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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