

UbcH5b/UBE2D2 Protein, Human

Cat. No.:	HY-P79449
Synonyms:	Ubiquitin-conjugating enzyme E2 D2; UBE2D2; (E3-independent) E2 ubiquitin-conjugating enzyme D2 (EC:2.3.2.24); E2 ubiquitin-conjugating enzyme D2; Ubiquitin carrier protein D2; Ubiquitin-conjugating enzyme E2(17)KB 2; Ubiquitin-conjugating enzyme E2-17 kD
Species:	Human
Source:	E. coli
Accession:	P62837-1 (M1-M147)
Gene ID:	7322
Molecular Weight:	Approximately 16 kDa

PROPERTIES

AA Sequence	<p>M A L K R I H K E L N D L A R D P P A Q C S A G P V G D D M F H W Q A T I M G P</p> <p>N D S P Y Q G G V F F L T I H F P T D Y P F K P P K V A F T T R I Y H P N I N S</p> <p>N G S I C L D I L R S Q W S P A L T I S K V L L S I C S L L C D P N P D D P L V</p> <p>P E I A R I Y K T D R E K Y N R I A R E W T Q K Y A M</p>
Biological Activity	Recombinant Human UbcH5b/UBE2D2 is a member of the Ubiquitin-conjugating (E2) enzyme family that receives Ubiquitin from a Ubiquitin-activating (E1) enzyme and subsequently interacts with a Ubiquitin ligase (E3) to conjugate Ubiquitin to substrate proteins.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of 20 mM HEPES, 50 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The UbcH5b/UBE2D2 protein serves as a crucial mediator in cellular processes, accepting ubiquitin from the E1 complex and catalyzing its covalent attachment to various proteins. With a pronounced preference for 'Lys-48'-linked polyubiquitination, UbcH5b/UBE2D2 demonstrates its versatility in modifying target proteins. Beyond its catalytic role, it plays a central part in the selective degradation of short-lived and aberrant proteins. UbcH5b/UBE2D2 is instrumental in the E6/E6-AP-induced
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ubiquitination of p53/TP53 and is involved in the ubiquitination of PEX5, as well as the autoubiquitination of STUB1 and TRAF6. Its engagement extends to signal-induced processes, including the conjugation and subsequent degradation of NFKBIA, FBXW2-mediated GCM1 ubiquitination and degradation, MDM2-dependent degradation of p53/TP53, and the activation of MAVS in the mitochondria by RIGI in response to viral infection. Moreover, UbcH5b/UBE2D2 proves to be essential for the viral activation of IRF3.

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

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