

UBE2G1 Protein, Human

Cat. No.:	HY-P77271
Synonyms:	Ubiquitin-conjugating enzyme E2 G1; E217K; UBC7; UBE2G1; UBE2G
Species:	Human
Source:	E. coli
Accession:	P62253 (M1-E170)
Gene ID:	7326
Molecular Weight:	Approximately 19.5 kDa

PROPERTIES

AA Sequence	M T E L Q S A L L L R R Q L A E L N K N P V E G F S A G L I D D N D L Y R W E V L I I G P P D T L Y E G G V F K A H L T F P K D Y P L R P P K M K F I T E I W H P N V D K N G D V C I S I L H E P G E D K Y G Y E K P E E R W L P I H T V E T I M I S V I S M L A D P N G D S P A N V D A A K E W R E D R N G E F K R K V A R C V R K S Q E T A F E
Biological Activity	Under ATP and E1 conditions, E2 covalently binds with ubiquitin molecules to form thioester complexes E2~Ub.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, 10% Glycerol, 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 (with carrier protein). 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	UBE2G1, an essential player in the ubiquitin-proteasome system, serves as an E2 ubiquitin-conjugating enzyme, facilitating the covalent attachment of ubiquitin to diverse protein substrates. In vitro, UBE2G1 showcases its catalytic competence by catalyzing both 'Lys-48'- and 'Lys-63'-linked polyubiquitination reactions. This multifaceted enzyme is implicated in potential roles, including the degradation of muscle-specific proteins, highlighting its involvement in cellular processes related to protein turnover. Additionally, UBE2G1 demonstrates its functional relevance by mediating the
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polyubiquitination of CYP3A4, a cytochrome P450 enzyme involved in the metabolism of various substrates, underscoring its significance in regulating specific cellular pathways.

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

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