

Recombinant Human Ubiquitin Conjugating Enzyme E2B

Cat. No. UBE2B-07H Lot. No. (See product label)

SPECIFICATION

Product Overview	Ubiquitin Conjugating Enzyme E2B Human Recombinant produced in E.coli is a 19 kDa protein containing 166 amino acids. The UE2B protein contains 6xHis tag and is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	This E2 enzyme encodes for the human homolog of the yeast DNA repair gene RAD6, which is induced by DNA damaging agents. UBE2B can conjugate ubiquitin to histone H2A in an E3- independent manner in vitro, and is essential for the multi-ubiquitination and degradation of N-end rule substrates. Additionally, UBE2B may have a role in sepsis-induced muscle protein proteolysis and cancer-induced cachexia.
Physical Appearance	Sterile Filtered white lyophilized powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	Lyophilized from a 0.2µm filtered concentrated (1 mg/ml) solution in 1X PBS and 1mM DTT, pH 7.5.
Solubility	It is recommended to reconstitute the lyophilized UBE2B in sterile water not less than 100g/ml, which can then be further diluted to other aqueous solutions

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Stability

Lyophilized UBE2B although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution UBE2B should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name

UBE2B ubiquitin-conjugating enzyme E2B (RAD6 homolog) [Homo sapiens]

Synonyms

EC 6.3.2.19; UBE2B; UBC2; E2-17kDa; HHR6B; HR6B; RAD6B; hHR6B; E2 protein; E2-17 kDa; ubiquitin-protein ligase B; ubiquitin carrier protein B; ubiquitin-conjugating enzyme E2B; ubiquitin-conjugating enzyme E2B (RAD6 homolog)

Gene ID

7320

mRNA Refseq

NM_003337

Protein Refseq

NP_003328

MIM

179095

UniProt ID

P63146

Chromosome Location

5q23-q31

Function

ligase activity; protein binding; ubiquitin-protein ligase activity.

The structure of the neprilysin ectodomain in complex with azinc-chelatinginhibitor.

The zinc atom is shown as a gray sphere and the inhibitor is shown in green. Rendering based on 1r1h.

Available structures:1dmt,1r1h,1r

