

Product Data Sheet

□ Cat # RP-421                      Recombinant Human Ubiquitin Conjugating Enzyme E2B                      **Size:** □ 10 ug

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.

**Source:** *Escherichia Coli*. 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. Lyophilized from a 0.2µm filtered concentrated (1 mg/ml) solution in 1X PBS and 1mM DTT, pH 7.5.

**Application And Suggested Dilutions:** It is recommended to reconstitute the lyophilized UBE2B in sterile water not less than 100µg/ml, which can then be further diluted to other aqueous solutions Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Users must optimize the appropriate concentration and conditions for each assay.

**Storage and 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.** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4oC for ~1 week or aliquots in suitable size and store at -20oC for long term storage.

**Usage:** This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

RP-421                      110208V

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