



Product Data Sheet

□ Cat # RP-424 Recombinant Human Ubiquitin Conjugating Enzyme E2D3 **Size:** □ 10 ug

UBE2D3 enzymes are human homologs of the yeast UBC4/5 family and play many important regulatory roles in inflammation and cancer. Ubch5a mediates the degradation of a myriad of short-lived regulatory proteins (such as p53 in the presence of E6/E6-AP or MDM2, c-Fos, IκBα, p105) and abnormal proteins. UBE2D3 has 88% and 89% sequence identity with Ubch5a and Ubch5b respectively.

Source: *Escherichia Coli*. Ubiquitin Conjugating Enzyme E2D3 Human Recombinant produced in E.coli is an 18 kDa protein containing 155 amino acids. The UBE2D3 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 UBE2D3 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 UBE2D3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution UBE2D3 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 4°C for ~1 week or aliquots in suitable size and store at -20°C 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.

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