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Product Data Sheet

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□ Cat # RP-425                      Recombinant Human Ubiquitin Conjugating enzyme 7, His Tag                      **Size:** □ 10 ug

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Human Ubiquitin Conjugating Enzyme 7 (UbcH7) is a class I enzyme which functions in the stress response and the control of transcription factors. The enzyme is ubiquitously expressed with high levels of expression seen in adult muscle. UbcH7 mediates the selective degradation of short-lived and abnormal proteins and is highly homologous to UbcH5. It has been demonstrated to participate in the ubiquitinylation of p53, c-Fos and NF-κB. UbcH7 is one of two E2s (UbcH5 being the other) with which HECT domain proteins interact with UbcH7 being able to efficiently substitute for UbcH5 in E6-AP-dependent ubiquitinylation.

**Source:** *Escherichia Coli*. Ubiquitin Conjugating Enzyme 7 Human Recombinant produced in E.coli is an 18.9 kDa protein containing 162 amino acids. The UbcH7 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 UbcH7 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 UbcH7 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution UbcH7 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.

RP-425                      110208V

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Alpha Diagnostic Intl Inc., 6203 Woodlake Center Dr, S an Antonio, T X 7 8 24 4 , U S A;

**India Contact:**

**Life Technologies (India) Pvt. Ltd.**

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400 Fax: +91-11-42208444 Email: [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com) Website: [www.lifetechindia.com](http://www.lifetechindia.com)