# Recombinant Human CDC34 His

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| **Catalog No.** | CRC241A | **Quantity:** | 10 µg |
| | CRC241B | | 50 µg |
| | CRC241C | | 1.0 mg |

**Description:** Ubiquitin Conjugating Enzyme E2 R1 (UBE2R1)/CDC34 is important in the control of cell cycle and DNA replication. Cdc34 in association with different E3 complexes, including SCF, has been shown to target many different substrates for ubiquitination and degradation during cell division, signal transduction, and development. Cdc34 substrates that have been characterized include IκB, B-Myb, Wee1, MyoD, ICERIIγ, ATF5, p27Xic1, and p27Kip1. Additionally, substrates such as β-catenin, p21Cip1, E2F, cyclin E, and cyclin D are putative substrates of Cdc34 by virtue of their SCF requirement for proteolysis. Cdc34 has been demonstrated to self-associate through a domain in the C-terminus, and is phosphorylated and ubiquitinylated *in vivo*. This protein is useful for in vitro ubiquitinylation reactions.
A single non-glycosylated polypeptide chain containing 236 amino acids (a.a.) of human UBE2R1/CDC34 and 12 a.a. vector sequence including 6 × His tag at N-terminus.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Source:** *E. coli*

**Molecular Weight:** Approximately 28.2 kDa

**Formulation:** Lyophilized from a 0.2µm filtered concentrated solution in PBS, 1 mM DTT, pH 7.5.

**Purity:** >95% by SDS-PAGE and HPLC analyses.

**Endotoxin Level:** Less than 1EU/µg of rHuUBE2R1/CDC34, His as determined by LAL method.

**Biological Activity:** Data is not available.

**Amino Acid Sequence:** **MHHHHHHAMG IL**MARPLVPS SQKALLLELK GLQEEPVEGF RVTLVDEGDL YNWEVAIFGP PNTYYEGGYF KARLKFPIDY PYSPPAFRFL TKMWHPNIYE TGDVCISILH PPVDDPQSGE LPSERWNPTQ NVRTILLSVI SLLNEPNTFS PANVDASVMY RKWKESKGKD REYTDIIRKQ VLGTKVDAER DGVKVPTTLA EYCVKTKAPA PDEGSDLFYD DYYEDGEVEE EADSCFGDDE DDSGTEES

**Reconstitution:** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.

**Storage & Stability:** This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. **Avoid repeated freeze/thaw cycles.**

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**

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