



Product Data Sheet

□ Cat # RP-434

Recombinant Cell Division Cycle 34

Size: □ 10 ug □ 10 ug

**Synonyms:**

UB2R1, CDC-34, Ubiquitin-conjugating enzyme E2 R1, Ubiquitin-protein ligase R1, Ubiquitin-conjugating enzyme E2-32 kDa complementing, E2-CDC34, CDC34, EC 6.3.2.19, UBC3, UBE2R1.

**Introduction:**

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 ubiquitinated in vivo. This protein is useful for in vitro ubiquitination reactions.

**Description:**

CDC34 Human Recombinant protein fused to N-terminal His-Tag produced in E.Coli is a single, non-glycosylated polypeptide chain containing 248 amino acids and having a molecular mass of 28 kDa.

The CDC34 is purified by proprietary chromatographic techniques.

**Source:**

Escherichia Coli.

**Physical Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

**Formulation:**

The CDC-34 was lyophilized from 1X PBS, pH 7.4 and 1mM DTT.

**Stability:**

Lyophilized CDC-34 although stable 10°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.

**Purity:**

Greater than 95.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

**Amino Acid Sequence:**

MHHHHHHAMGILMARPLVPSSQKALLLELKGLQEE  
PVEGFRVTLVDEGDLYNWEVAIFGPPNTYYEGGYF  
KARLKFPIIDYPYSPPAFRFLTKMWHPNYETGDVCIS  
ILHPPVDDPQSGELPSEWRNPTQNVRTILLSVISLLNE  
PNTFSPANVDASVMYRKWKESKGDREYTDIIRKQ  
VGTKVDAERDGVKVPPTLAEYCVKTKAPAPDEGSD  
LFYDDYY EDGEVEEEEADSCFGDDEDDSGTEES.

**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. 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.

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