Product Datasheet

Product Name	Cell Division Cycle 34 Human Recombinant
Cata No	CB500530
Source	*Escherichia Coli.*
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.

Description

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, p21^{Cip1}, 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.

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.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Purity

Greater than 95.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Formulation

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

Stability

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

Sequence

MHHHHHHAMGILMARPLVPSSQKALLLELKGLQE EPVEGFRVTLVDEG DLYNWEVAIFGPPNTYYEGGYFKARLKFPIDYPYS PPAFRFLTKMWHPN IYETGDVCISILHPPVDDPQSGELPSERWNPTQNV RTILLSVISLLNEPN TFSPANVDASVMYRKWKESKGKDREYTDIIRKQV GTKVDAERDGVKVPT TLAEYCVKTKAPAPDEGSDLFYDDYYEDGEVEEE ADSCFGDDEDDSGT EES.

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