

Human recombinant UBE2R1 (CDC34)

CATALOG #:	6436-3	3 nmol
ALTERNATE NAMES:	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.	
MOL. WEIGHT:	27.730 kDa with His Tag.	
PURITY:	≥95% by RP-HPLC	
FORMULATION:	75 µL of a 40 µM solution (3 nmoles) in 50 mM Tris, pH 7.5, 150 mM NaCl, 10 mM DTT and 10% glycerol.	
SOLUBILITY:	>3 mg/ml	
ACTIVITY:	Protein concentration of 100 nM - 1 µM is recommended for in vitro conjugation.	
STORAGE CONDITIONS:	Aliquot and store at -80°C. Avoid repeated freezing and thawing cycles.	

DESCRIPTION:

UBE2R1 is important in the control of cell cycle and DNA replication. In association with different E3 complexes, including SCF, it has been shown to target many different substrates for ubiquitination and degradation during cell division, signal transduction, and development. UBE2R1 substrates include B-Myb, Wee1, MyoD, ATF5, p27Xic1, and p27Kip1. Additionally, substrates such as p21Cip1, E2F, cyclin E, and cyclin D are putative substrates of UBE2R1 by virtue of their SCF requirement for proteolysis. This protein is useful for in vitro ubiquitylation reactions.

APPLICATIONS

- Identify cognate E2/E3 pairs
- Characterize upregulation/downregulation of E2 enzymes
- Build poly-ubiquitin chains
- Characterize ubiquitin chain specificity of E2 enzymes
- Analyze expression of E2 enzymes

RELATED PRODUCTS:

- Human recombinant UCHL1 (**Cat. No. 6306-100**)
- Human recombinant UCHL3 (**Cat. No. 6358-100**)
- Human recombinant UCHL5 (**Cat. No. 6359-100**)
- UbcH1, human recombinant (GST-tag) (**Cat. No. 4846-10, -100**)
- UbcH5a, human recombinant (His-tag) (**Cat. No. 4851-10, -100**)
- UbcH5b, human recombinant (His-tag) (**Cat. No. 4852-10, -100**)
- UCHL1, human recombinant (GST-tag) (**Cat. No. 4855-50**)
- Human recombinant UBE2D3 (UbcH5c) (**Cat. No. 6430-3**)
- Human recombinant UBE2L3 (UbcH7) (**Cat. No. 6431-3**)
- Human recombinant UBE2K (UbcH1) (**Cat. No. 6432-3**)
- Yeast recombinant Ubc13 (UBE2N) (**Cat. No. 6433-3**)
- Yeast recombinant Mms2 (UEV-2) (**Cat. No. 6434-3**)
- Human recombinant UBE2D2 (UbcH5b) (**Cat. No. 6435-3**)
- Human recombinant UBE2R2 (Ubc3B) (**Cat. No. 6437-3**)
- Human recombinant UBE2E2 (UbcH8) (**Cat. No. 6438-3**)
- Human recombinant UBE2E3 (UbcH9) (**Cat. No. 6439-3**)
- Human recombinant UBE2H (UbcH2) HIS (**Cat. No. 6440-3**)
- Human recombinant UBE2H (UbcH2), HIS₆SUMO (**Cat. No. 6441-3**)

FOR RESEARCH USE ONLY! Not to be used in humans.