

Recombinant Human Ring-box 1, His-tagged

Cat. No. RBX1-2389H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Ring-box 1 is Expressed in <i>E. coli</i> with a His tag. MW= 14kDa.
Species	Human
Source	E.coli
Description	Cullin-based E3 ligases, such as SCF (Skp1-Cdc53-F-box protein), are a large family of multi-subunit ubiquitin ligases with diverse cellular functions, including the regulation of the cell cycle, of the DNA damage response, and of various transcription factors. These ligases are composed of one of six mammalian cullin homologs (Cul1, Cul2, Cul3, Cul4a, Cul4b, and Cul5), the Ring finger containing protein Rbx1/Roc1, and cullin homolog-specific adaptor and substrate recognition subunits. Activation of cullin-based ligases require the covalent modification of a conserved lysine residue in the cullin protein with the ubiquitin-like protein NEDD8. This modification is catalyzed by the Rbx1 subunit.
Purity	≥98% (SDS-PAGE).
Concentration	0.5mg/ml.
Formulation	Liquid. In 50mM TRIS, pH 8.0, Containing 50mM NaCl and 1mM DTT.
Storage	-80°C. Avoid freeze/thaw cycles. After opening, prepare aliquots and store at -80°C.

GENE INFORMATION

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Gene Name	RBX1 ring-box 1 [Homo sapiens]
Synonyms	RBX1; ring-box 1; ROC1; RNF75; MGC1481; MGC13357; BA554C12.1
Gene ID	9978
mRNA Refseq	NM_014248
Protein Refseq	NP_055063
MIM	603814
UniProt ID	P62877
Chromosome Location	22q13.2
Pathway	Cell cycle; Nucleotide excision repair; Oocyte meiosis; Pathways in cancer; Renal cell carcinoma; Ubiquitin mediated proteolysis; TGF-beta signaling pathway; HIV Infection
Function	NEDD8 ligase activity;metal ion binding; protein binding; zinc ion binding
PDB rendering based on 1ldj.	