

# Recombinant human RAD1 protein

Catalog Number: ATGP0645

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-282aa

### UniProt No.

O60671

### NCBI Accession No.

NP\_002844.1

### Alternative Names

Cell cycle checkpoint protein RAD1, HRAD1, REC1, Cell cycle checkpoint protein RAD1

## PRODUCT SPECIFICATION

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### Molecular Weight

33.9 kDa (302aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 1mM DTT, 10% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

RAD1 is a component of a heterotrimeric cell cycle checkpoint complex, known as the 9-1-1 complex, that is activated to stop cell cycle progression in response to DNA damage or incomplete DNA replication. This complex also contains the Rad9 and Hus1 proteins and is believed to be involved in cellular responses to DNA damage, possibly by associating with Rad17 and several components of the PCNA-loading heteropentamer, replication factor C. Recombinant human RAD1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MPLLTQQIQD EDDQYSLVAS LDNVRNLSTI LKAIHFREHA TCFATKNGIK  
VTVENAKCVQ ANAFIQAGIF QEFKVQEEVS TFRINLTVLL DCLSI FGSSP MPGTLTALRM CYQGYGYPLM LFLEEGGVVT  
VCKINTQEPE ETLDDFDCST NVINKIILQS EGLREAFSEL DMTSEVLQIT MSPDKPYFRL STFGNAGSSH LDYPKSDSLM  
EAFHCNQTQV NRYKISLLKP STKALVLSCK VSIRTDNRGF LSLQYMIRNE DGQICFVEYY CCPDEEVPEES ES

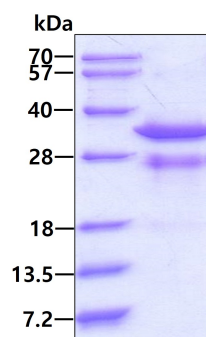
## General References

Liu Y., et al. (2010) J Biol Chem. 285(8):5974-82.

Yazinski SA., et al. (2009) Proc Natl Acad Sci U S A. 106(50):21282-7.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.