

Recombinant human RAD1 protein

Catalog Number: ATGP0645

PRODUCT INFORMATION

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

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

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 DCLSIGSSP MPGTLTALRM CYQGYGYPLM LFLEEGGVVT
VCKINTQEPE ETLDFFDCST NVINKIILQS EGLREAFSEL DMTSEVLQIT MSPDKPYFRL STFGNAGSSH LDYPKDSGLM
EAFHCNQTVQV NRYKISLLKP STKALVLSCK VSIRTDNRGF LSLQYMIRNE DGQICFVEYY CCPDEEVPES ES

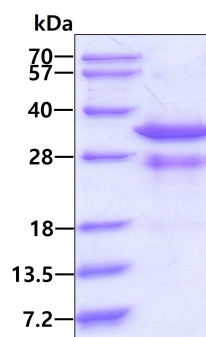
General References

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



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.