

Recombinant Human RAD1 Homolog (*S. pombe*), His-tagged

Cat. No. RAD1-2756H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RAD1 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques.
Species	Human
Source	<i>E.coli</i>
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.
Purity	> 90% by SDS – PAGE.
Sequences	MGSSHHHHHH SSGLVPRGSH MPLLTQQIQD EDDQYSLVAS LDNVRNLSTI LKAIHFREHA TCFATKNGIK VTVENAKCVQ ANAFIQAGIF QEFKVQEEVS TFRINLTVLL DCLSIFGSSP MPGLTLALRM CYQGYGYPLM LFLEEGGVVT VCKINTQEPE ETLDFDFCST NVINKIILQS EGLREAFSEL DMTSEVLQIT MSPDKPYFRL STFGNAGSSH LDYPKDSGLM EAFHCNQTQV NRYKISLLKP STKALVLSCK VSIRTDNRGF LSLQYMIRNE DGQICFVEYY CCPDEEVPES ES.
Molecular Weight	33.9 kDa (302aa) confirmed by MALDI-TOF.

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Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 1mM DTT, 10% glycerol.
Concentration	0.5 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	RAD1 RAD1 homolog (S. pombe) [Homo sapiens]
Synonyms	RAD1; RAD1 homolog (S. pombe); DNA repair exonuclease REC1; DNA repair exonuclease rad1 homolog; OTTHUMP00000115992; cell cycle checkpoint protein Hrad1; cell cycle checkpoint protein RAD1; checkpoint control protein HRAD1; exonuclease homolog RAD1; rad1-like DNA damage checkpoint protein; HRAD1; REC1; REC1; HRAD1; IEC 3.1.11.2
Gene ID	5810
mRNA Refseq	NM_002853
Protein Refseq	NP_002844
MIM	603153
UniProt ID	O60671
Chromosome Location	5p13.2

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Pathway	Cell Cycle Checkpoints
Function	3"-5" exonuclease activity; damaged DNA binding; exodeoxyribonuclease III activity; hydrolase activity; protein binding

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