Cell Cycle Checkpoint Protein RAD1 (RAD1) Pongo Abelii Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cell cycle checkpoint protein RAD1 (RAD1), Recombinant Protein
Full Product Name	Recombinant Pongo abelii Cell cycle checkpoint protein RAD1 (RAD1)
Product Gene Name	RAD1 recombinant protein
Product Synonym Gene Name	RAD1
Sequence	MPLLTQQIQD EDDQYSLVAS LDNVRNLSTI LKAIHFREHA TCFATKNGIK VTVENAKCVQ ANAFIQAGIF QEFKVQEESV TFRINLTVLL DCLSIFGSSP MPGTLTALRM CYQGYGYPLM LFLEEGGVVT VCKINTQEPE ETLDFDFCST NVINKIILQS EGLREAFSEL DMTSEVLQIT MSPDKPYFRL STFGNAGSSH LDYPKDSDLM EAFHCNQTQV NRYKISLLKP STKALVLSCK VSIRTDNRGF LSLQYMIRNE DGQICFVEYY CCPDEEVPES ES
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	31,827 Da
Sequence Positions	1-282, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q5R7X9
Species	Pongo abelii (Sumatran orangutan)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RAD1 recombinant protein	MBS1422342 is a recombinant protein targeting RAD1. Also known as Recombinant Pongo abelii Cell cycle checkpoint protein RAD1 (RAD1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of RAD1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RAD1. It may not necessarily be applicable to this product.

NCBI GI #	197101621
NCBI GeneID	100173217
NCBI Accession #	NP_001126246.1
UniProt Primary Accession #	Q5R7X9
UniProt Related Accession #	Q5R7X9

GenBank Nucleotide #	NM_001132774.1
NCBI Official Full Name	cell cycle checkpoint protein RAD1
NCBI Official Symbol	RAD1
UniProt Protein Name	Cell cycle checkpoint protein RAD1
UniProt Synonym Protein Names	DNA repair exonuclease rad1 homolog
Protein Family	Cell cycle checkpoint protein
UniProt Gene Name	RAD1
NCBI Protein Information	cell cycle checkpoint protein RAD1
UniProt Comments for RAD1	Component of the 9-1-1 cell-cycle checkpoint response complex that plays a major role in DNA repair. The 9-1-1 complex is recruited to DNA lesion upon damage by the RAD17-replication factor C (RFC) clamp loader complex. Acts then as a sliding clamp platform on DNA for several proteins involved in long-patch base excision repair (LP-BER). The 9-1-1 complex stimulates DNA polymerase beta (POLB) activity by increasing its affinity for the 3'-OH end of the primer-template and stabilizes POLB to those sites where LP-BER proceeds; endonuclease FEN1 cleavage activity on substrates with double, nick, or gap flaps of distinct sequences and lengths; and DNA ligase I (LIG1) on long-patch base excision repair substrates. The 9-1-1 complex is necessary for the recruitment of RHNO1 to sites of double-stranded breaks (DSB) occurring during the S phase. Possesses 3'->5' double-stranded DNA exonuclease activity ().
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