9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

RAD1 Human

RAD1 Human Recombinant
RCP1786

Product Overview

Name	RAD1 Human
Description	
RAD1 Human Recombinant	
Accession (Primary)	O60671
Synonyms	
RAD-1, HRAD1, REC1, Cell cycle checkpoint protein RAD1, hRAD1, EC=3.1.11.2, DNA repair exonuclease rad1 homolog, Rad1-like DNA damage checkpoint protein.	
Introduction	
RAD1 is part of a heterotrimeric cell cycle checkpoint complex, recognized as the 9-1-1 complex, that is activated to stop cell cycle progression in reaction to DNA damage or incomplete DNA replication. RAD1 complex withholds the Rad9 and Hus1 proteins and takes part in cellular responses to DNA damage, by associating with Rad17 and several components of the PCNA-loading heteropentamer, replication factor C. RAD1 takes part in DNA repair and recruited to DNA lesion upon damage by the RAD17-replication factor C (RFC) clamp loader complex. RAD1 takes part as a sliding clamp platform on DNA for several proteins that play a role in long-patch base excision repair (LP-BER). RAD1 complex stimulates DNA polymerase beta (POLB) activity by raising its affinity for the 3''-OH end of the primer-template and stabilizes POLB to those sites where LP-BER proceeds.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
RAD1 Human solution containing 20mM Tris pH-8, 1mM DTT, 0.2M NaCl & 10% glycerol.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
Amino acid sequence	

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MGSSHHHHHH SSGLVPRGSH 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.

Precautions

RAD1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O60671)