

RAD1 Human

Description: RAD1 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 301 amino acids (1-282 a.a.) and having a molecular mass of 33.9 kDa. The RAD1 is fused to 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Catalog #: PRPS-875

For research use only.

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.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MPLL TQQIQD EDDQYSLVAS
LDNVRNLSTI LKAIHFREHA TCFATKNGIK VTVENAKCVQ ANAFIQAGIF QEFK VQEESV
TFRINLTVLL DCLSI FGSSP MPGLTALRM CYQGYGYPLM LFLEEGGVVT VCKINTQEPE
ETLDFDFCST NVINKIILQSEGLREAFSEL DMTSEVLQIT MSPDKPYFRL STFGNAGSSH
LDYPKDSDLM EAF

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

RAD1 Human solution containing 20mM Tris pH-8, 1mM DTT, 0.2M NaCl & 10% glycerol.

Stability:

RAD1 Human although stable at 4°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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.

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