

## 32-4587: Recombinant Human RAD51B

**Alternative Name :** RAD51 homolog B (S. cerevisiae), R51H2, RAD51L1, REC2, DNA repair protein RAD51 homolog 2, Rad51B, RAD51-like protein 1, RAD51B.

### Description

Source : Escherichia Coli. RAD51B Human Recombinant produced in E. coli is. a single polypeptide chain containing 373 amino acids (1-350) and having a molecular mass of 40.6kDa. RAD51B is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. RAD51 family members are evolutionarily conserved proteins vital for DNA repair by homologous recombination. RAD51B is a part of the RAD51 protein family. RAD51B is involved in the homologous recombination repair (HRR) pathway of double-stranded DNA breaks occurring during DNA replication or induced by DNA-damaging agents. RAD51B forms a stable heterodimer with the family member RAD51C, which interacts with the other family members, such as RAD51, XRCC2, and XRCC3. Overexpression of RAD51B leads to cell cycle G1 delay and cell apoptosis.

### Product Info

**Amount :** 20 µg

**Purification :** Greater than 85% as determined by SDS-PAGE.

**Content :** The RAD51B solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.

**Storage condition :** 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.

**Amino Acid :** MGSSHHHHH SSGLVPRGSH MGSMGSKKLV RVGLSQELCD RLSRHQILTC QDFLCLSPLE LMKVTGLSYR GVHELLCMVS RACAPKMQTA YGIKAQRSAD FSPAFLSTTL SALDEALHGG VACGSLTEIT GPPGCGKTQF CIMMSILATL PTNMGGLEGA VVYIDTESAF SAERLVEIAE SRFPRYFNTE EKLLLTSSKV HLYRELTCD E VLQRIESLEE EIISKGIKLV ILDSVASVVR KEFDAQLQGN LKERNKFLAR EASSLKYLAE EFSIPVILTN QITTHLSGAL ASQADLVSPA DDLSLSEGTS GSSCVIAALG NTWSHSVNTR LILQYLDSE R RQILIAKSPL APFTSFVYTI KEEGLVLQAY GNS.

