

RAD51B, 1-350aa, Human, His tag, E.coli

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3th Edition

Synonyms:DNA repair protein RAD51 homolog 2 isoform 1, RAD51 homolog B (*S. cerevisiae*), R51H2, RAD51L1, REC2

Description:RAD51B is a member of the RAD51 protein family. RAD51 family members are evolutionarily conserved proteins essential for DNA repair by homologous recombination. This protein has been shown to form a stable heterodimer with the family member RAD51C, which further interacts with the other family members, such as RAD51, XRCC2, and XRCC3. Overexpression of this gene was found to cause cell cycle G1 delay and cell apoptosis, which suggested a role of this protein in sensing DNA damage. Recombinant human RAD51B protein, fused to His-tag at N-terminus, was expressed in *E.coli* .

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing , 10% glycerol, 0.4M Urea

Molecular Weight:40.6kDa (373aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMGSKKLRVGLSQELCDRLSRHQILTCQDFLCLSPLELMKVTGLSYRGVHE
LLCMVSRACAPKMQTAYGIKAQRSADFSPAFLSTTLSALDEALHGGVACGSLTEITGPPGCGKTQFCIMMSILATLP
TNMGLEGAVVYIDTESAFSAERLVEIAESRFPRYFNTEEKLLLTSSKVHLYRELTCDLQRIELEEIIISKGIKLVIL
DSVASVVRKEFDAQLQGNLKERNKFLAREASSLKYLAEEFSIPVILTNIQTTHLSGALASQADLVSPADDLSLSEGTS
GSSCVIAALGNTWSHSVNTLRLILQYLDSEERRQILIAKSPLAPFTSFVYTIKEEGLVLQAYGNS

Purity:> 95% by HPLC

Concentration:1.0 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.