
Product Data Sheet

Product Name: RAD51B Human

Cat. No.: GP24315

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	RAD51 homolog B (<i>S. cerevisiae</i>); R51H2; RAD51L1; REC2; DNA repair protein RAD51 homolog 2; Rad51B; RAD51-like protein 1; RAD51B.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMGSKKLLK RVGLSQELCD RLSRHQILTC QDFLCLSPLE LMKVTGLSYR GVHELLCMVS RACAPKMQTA YGIKAQRSAD FSPAFLSTTL SALDEALHGG VACGSLTEIT GPPGCGKTQF CIMMSILATL PTNMGGLEGA VVYIDTESAF SAERLVEIAE SRFPRYFNTE EKLLLTSSKV HLYRELTCTDE VLQRIESLEE EIISKGIKLV ILDSVASVVR KEFDAQLQGN LKERNKFLAR EASSLKYLAE EFSIPVILTN QITTHLSGAL ASQADLVSPA DDLSLSEGTS GSSCVIAALG NTWSHSVNTR LILQYLDSESR RQILIAKSPL APFTSFVYTI KEEGLVLQAY GNS.		
Formulation	The RAD51B solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.		

Introduction

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.

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%

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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.

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