

Recombinant Full Length Human RAD51 paralog D / RAD51D Protein, His-tagged

Cat. No. RAD51D-448H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RAD51D,1-328aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-328 a.a.
Description	RAD51D is a member of the RAD51 protein family. RAD51 family members are highly similar to bacterial RecA and <i>Saccharomyces cerevisiae</i> Rad51, which are known to be involved in the homologous recombination and repair of DNA. This protein forms a complex with several other members of the RAD51 family, including RAD51L1, RAD51L2, and XRCC2. The protein complex formed with this protein has been shown to catalyze homologous pairing between single- and double-stranded DNA, and is thought to play a role in the early stage of recombinational repair of DNA. Recombinant human RAD51D protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	37.4 kDa (351aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMGVLRVG LCPGLTEEMI QLLRSHRIKT

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VVDLVSADLE EVAQKCGLSY KALVALRRVL LAQFSAFPVN GADLYEELKT
 STAILSTGIG SLDKLLDAGL YTGEVTEIVG GPGSGKTQVC LCMAANVAHG
 LQQNVLYVDS NGGLTASRLL QLLQAKTQDE EEQAEALRRI QVVHAFDIFQ
 MLDVLQELRG TVAQQVTGSS GTVKVVVDS VTAVVSPLLQ GQQREGLALM
 MQLARELCTL ARDLGMAVVV TNHITRDRDS GRLKPALGRS WSFVPSTRIL
 LDTIEGAGAS GGRRMACLAK SSRQPTGFQE MVDIGTWGTS EQSATLQGDQ T

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name RAD51D RAD51 homolog D (S. cerevisiae) [Homo sapiens]

Official Symbol RAD51D

Synonyms RAD51D; RAD51 homolog D (S. cerevisiae); RAD51 (S. cerevisiae) like 3 , RAD51 like 3 (S. cerevisiae) , RAD51L3; DNA repair protein RAD51 homolog 4; HsTRAD; R51H3; recombination repair protein; Trad; RAD51-like protein 3; TRAD; BROVCA4; RAD51L3;

Gene ID 5892

mRNA Refseq NM_001142571

Protein Refseq NP_001136043

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MIM	602954
UniProt ID	O75771
Chromosome Location	17q11
Pathway	Homologous recombination, organism-specific biosystem; Homologous recombination, conserved biosystem;
Function	ATP binding; DNA binding; DNA-dependent ATPase activity; nucleoside-triphosphatase activity; nucleotide binding; protein binding;

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