

Recombinant Human RAD51D, His-tagged

Cat. No. RAD51D-5049H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RAD51D protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
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.
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 VVDLVSADLE EVAQKCGLSY KALVALRRVL LAQFSAFPVN GADLYEELKT STAILSTGIG SLDKLLDAGL YTGEVTEIVG GPGSGKTQVC LCMAANVAHG LQQNVLYVDS NGGLTASRLL QLLQAKTQDE EEQAEALRRI QVVHAFDIFQ MLDVLQELRG TVAQQVTGSS GTVKVVVDS VTAVVSPLL GQQREGLALM

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

MQLARELCTL ARDLGMAVVV TNHITRDRDS GRLKPALGRS WSFVPSTRIL
 LDTIEGAGAS GGRRMACLAK SSRQPTGFQE MVDIGTWGTS EQSATLQGDQ T

Purity >90% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. 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](#)

MIM [602954](#)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA