

Recombinant Human RAD51 paralog D, His-tagged

Cat. No. RAD51D-411H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RAD51D iso4,1-216aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-216 a.a.
Description	RAD51D is a member of the RAD51 protein family. RAD51 family members are highly similar to bacterial RecA and Saccharomyces cerevisiae 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 RDA51D protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	23.9 kDa (213aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMGVLRVG LCPGLTEEMI QLLRSHRIKT VVDLVSADLE EVAQKCGLSY KAEALRRIQV VHAFDIFQML DVLQELRGTV AQQVTGSSGT VKVVVVDSVT AVVSPLLGGQ QREGLALMMQ LARELKTAR

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DLGMAVVVTN HITRDRDSGR LKPALGRSWS FVPSTRILLD TIEGAGASGG
RRMACLAKSS RQPTGFQEMV DIGTWGTSEQ SATLQGDQT

Purity >95% 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 1 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](#)

UniProt ID [O75771](#)

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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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