

# Recombinant human RAD51D protein

Catalog Number: ATGP2545

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-328aa

### UniProt No.

O75771

### NCBI Accession No.

NP\_002869

### Alternative Names

RAD51 homolog D isoform 1, RAD51 homolog D isoform 1, BROVCA4, R51H3, RAD51L3, TRAD

## PRODUCT SPECIFICATION

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### Molecular Weight

37.4 kDa (351aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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 RAD51D protein, fused to His-tag at N-terminus, was

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expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

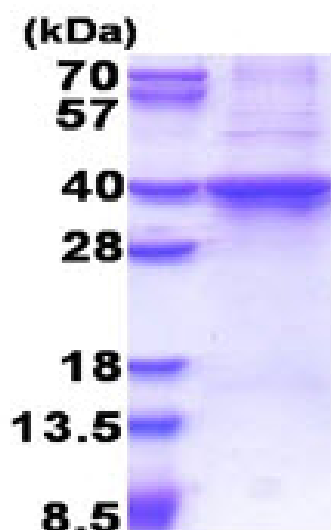
MGSSHHHHHH SSSLVPRGSH MGSMGVLRVG LCPGLTEEMI QLLRSHRIKT VVDLVSADLE EVAQKCGLSY KALVALRRVL  
LAQFSAFPVN GADLYEELKT STAILSTGIG SLDKLLDAGL YTGEVTEIVG GPGSGKTQVC LCMAANVAHG LQQNVLYVDS  
NGGLTASRL QLLQAKTQDE EEQAEALRRI QVVHAFDIFQ MLDVLQELRG TVAQQVTGSS GTVKVVVVDS VTAVVSPLL  
GQQREGLALM MQLARELCTL ARDLGMAVVV TNHITRDRDS GRLKPALGRS WSFVPSTRIL LDTIEGAGAS GGRRMACLAK  
SSRQPTGFQE MVDIGTWGTS EQSATLQGDQ T

## General References

Masson J.Y., et al. (2001) Genes Dev. 15:3296-3307  
Liu N., et al. (2002) Nucleic Acids Res. 30:1009-1015

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)