

# Recombinant Human RAD51 Protein Product Manual

## 1. Product Basic Information

**Product No.:** REP08001

**Protein Name:** Rad51 Homolog Rad51 Recombinase (RAD51)

**Aliases:** RECA; BRCC5; FANCR; MRMV2; HRAD51; RAD51A; HsRad51; HsT16930; RAD51 homolog RAD51 recombinase; RecA-like protein; recombination protein RecA, E. coli, homolog of

**UniProt ID:** Q06609

**UniProt Link:** <https://www.uniprot.org/uniprotkb/Q06609/entry>

**Species Source:** Homo sapiens (Human)

**Expression System:** E.coli

**Protein Length:** Full Length of Mature Protein (2-339aa)

**Molecular Weight:** 40.9 kDa

**Protein Tag:** N-terminal 6xHis-tagged

## 2. Amino Acid Sequence (2-339aa)

AMQMQLLEANADTSVEEESFGPQPISRLEQCGINANDVKKLEEAGFHTVEAVAYAPK  
KELINIKGISEAKADKILAEAAKLVPMTTATEFHQRRSEIIQITTSKELDKLLQGGI  
ETGSITEMFGEFRTGKTQICHTLAVTCQLPIDRGGGEGKAMYIDTEGTFRPERLLAV  
AERYGLSGSDVLDNVAYARAFNTDHQTQLLYQASAMMVESRYALLIVDSATALYRT  
DYSGRGELSARQMHLARFLRMLLRLADEFVAVVITNQVVAQVDGAAMFAADPKK  
PIGGNIIAHASTTRLYLRKGRGETRICKIYDSPCLPEAEAMFAINADGVGDAKD

## 3. Storage Buffer

**Liquid Delivery Form:** Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

**Lyophilized Powder Delivery Form:** Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.



## 4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

## 5. Product Description

This product is a recombinant Human RAD51 full length of mature protein protein (2-339aa) expressed in E.coli. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. RAD51, also known as RECA or BRCC5 or FANCR, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

## 6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.