

# Recombinant human XRCC2 protein

Catalog Number: ATGP2509

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-280aa

### UniProt No.

O43543

### NCBI Accession No.

NP\_005422

### Alternative Names

X-ray repair cross complementing 2, X-ray repair complementing defective repair in Chinese hamster cells 2, FANCU, RAD51-like

## PRODUCT SPECIFICATION

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### Molecular Weight

34.3 kDa (303aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 80% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### 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

XRCC2 is a member of the RecA/Rad51-related protein family that participates in homologous recombination to maintain chromosome stability and repair DNA damage. This gene is involved in the repair of DNA double-strand breaks by homologous recombination and it functionally complements Chinese hamster *irs1*, a repair-deficient mutant that exhibits hypersensitivity to a number of different DNA-damaging agents. Recombinant human XRCC2 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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## Amino acid Sequence

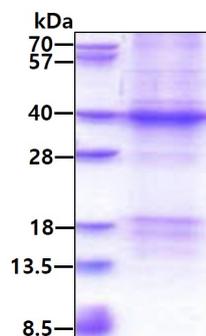
<MGSSHHHHHH SSGLVPRGSH MGS>MCSAFHR AESGTELLAR LEGRSSLKEI EPNLFADEDS PVHGDILEFH  
GPEGTGKTEM LYHLTARCIL PKSEGGLEVE VLFIDTDYHF DMLRLVTILE HRLSQSSEEI IKYCLGRFFL VYCSSTHLL  
LTLYSLESMF CSHPSLCLLI LDSLSAFYWI DRVNGGESVN LQESTLRKCS QCLEKLVNDY RLVLFATTQT IMQKASSSSE  
EPSHASRRLC DVDIDYRPLY CKAQQQLVKH RMFFSKQDDS QSSNQFSLVS RCLKSNSLKK HFFIIGESGV EFC

## General References

Masson J.Y., et al. (2001) Genes Dev. 15:3296-3307  
Miller K.A., et al. (2002) J. Biol. Chem. 277:8406-8411

## DATA

### SDS-PAGE



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