

Recombinant Human X-ray repair complementing defective repair in Chinese hamster cells 2, His-tagged

Cat. No. XRCC2-412H Lot. No. (See product label)

SPECIFICATION

Product Overview	XRCC2,1-280aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-280 a.a.
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	34.3 kDa (303aa)
AA Sequence	HHHHH SGLVPRGSH MGSMCSAFHR AESGTELLAR LEGRSSLKEI EPNLFAEDS PVHGDILEFH GPEGTGKTEM LYHLTARCIL PKSEGGLEVE VLFIDTDYHF DMLRLVTILE HRLSQSSEEI IKYCLGRFFL VYCSSSTHLL LTLYSLESMF CSHPSLCLLI LDSLSAFYWI DRVNGGESVN LQESTLRKCS

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QCLEKLVNDY RLVLFATTQT IMQKASSSSE EPSHASRRLC DVDIDYRPYL
CKAWQQLVKH RMFFSKQDDS QSSNQFSLVS RCLKSNSLKK HFFIIGESGV EFC

Purity >80% 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 [XRCC2 X-ray repair complementing defective repair in Chinese hamster cells 2 \[Homo sapiens \]](#)

Official Symbol XRCC2

Synonyms XRCC2; X-ray repair complementing defective repair in Chinese hamster cells 2; DNA repair protein XRCC2; RAD51 like; X-ray repair cross-complementing protein 2; X-ray repair, complementing defective, repair in Chinese hamster; DKFZp781P0919;

Gene ID [7516](#)

mRNA Refseq [NM_005431](#)

Protein Refseq [NP_005422](#)

MIM [600375](#)

UniProt ID [O43543](#)

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Chromosome Location	7q36
Pathway	Homologous recombination, organism-specific biosystem; Homologous recombination, conserved biosystem;
Function	ATP binding; DNA binding; DNA-dependent ATPase activity;

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