

Recombinant Human XRCC3, His-tagged

Cat. No. XRCC3-7094H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human XRCC3 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-346aa
Description	XRCC3, also known as RAD51-like, belongs to the RecA family and RAD51 subfamily. It participates in homologous recombination to maintain chromosome stability and repair DNA damage. This protein functionally complements Chinese hamster irs1SF, a repair-deficient mutant that exhibits hypersensitivity to a number of different DNA-damaging agents and is chromosomally unstable.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea
Molecular Mass	40.0 kDa (366aa)
AA Sequence	MGSSHHHHHH SGLVPRGSH MDLDDLNLNPIIAAIKKAK LKSVKEVLHF SGPDLKRLTN LSSPEVWHLL RTASLHLRGS SILTALQLHQKRFPTQHQ RLSLGCPVLD ALLRGGLPLD GITELAGRSS AGKTQLALQL CLAVQFPRQH GGLEAGAVYI CTEDAFPHKR LQQLMAQQPRLRTDVPCELL QKLRFGSQIF IEHVADVDTL LECVNKKVPV LLSRGMARLV VIDSVAAPFR CEFDSQASAP RARHLQSLGA TLRELSSAFQSPVLCINQVT EAMEEQGAAH GPLGFWDERV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SPALGITWAN QLLVRLADR LREEEALGC PARTLRVLSA PHLPPSSCSY
TISAEGVRGTPGTQSH

Purity >85% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml

GENE INFORMATION

Gene Name [XRCC3 X-ray repair complementing defective repair in Chinese hamster cells 3 \[Homo sapiens \]](#)

Official Symbol XRCC3

Synonyms XRCC3; X-ray repair complementing defective repair in Chinese hamster cells 3; DNA repair protein XRCC3; RAD51 like; X-ray repair cross-complementing protein 3; CMM6;

Gene ID [7517](#)

mRNA Refseq [NM_001100118](#)

Protein Refseq [NP_001093588](#)

MIM [600675](#)

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UniProt ID	O43542
Chromosome Location	14q32.3
Pathway	Fluoropyrimidine Activity, organism-specific biosystem; Homologous recombination, organism-specific biosystem; Homologous recombination, conserved biosystem;
Function	ATP binding; DNA binding; DNA-dependent ATPase activity; nucleotide binding; protein binding;

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