

Recombinant Human XRCC4, His-tagged

Cat. No. XRCC4-30134TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-334 of Human XRCC4 with N terminal His tag, Predicted MWt 39 kDa.
Species	Human
Source	E.coli
ProteinLength	1-334 a.a.
Description	The protein encoded by this gene functions together with DNA ligase IV and the DNA-dependent protein kinase in the repair of DNA double-strand break by non-homologous end joining and the completion of V(D)J recombination events. The non-homologous end-joining pathway is required both for normal development and for suppression of tumors. This gene functionally complements XR-1 Chinese hamster ovary cell mutant, which is impaired in DNA double-strand breaks produced by ionizing radiation and restriction enzymes. Alternative transcription initiation and alternative splicing generates several transcript variants.
Conjugation	HIS
Tissue specificity	Widely expressed.
Form	Lyophilised:Reconstitute with 91 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium

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phosphate, 10mM Sodium chloride, pH 4.5

Storage

Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

Sequences of amino acids

MERKISRHLVSEPSITHFLQVSWEKTLESGFVITLTDGH SAWTGTVSESEISQEADD
MAMEKKGKYVGELRKALLSGA GPADVYTFNFSKESCYFFFEKNLKDVSFRLGSFNLE
KV ENPAEVIRELICyclDTIAENQAKNEHLQKENERLLRD WNDVQGRFEKCVSAKE
ALETDLYKRFILVLNEKTKIRSL HNKLLNAAQEREKDIKQEGETAICSEMTADRPV
YDES TDEESENQTDLSGLASAAVSKDDSISSLDVTDIAPSR KRRQRMQRNLGTEP
KMAPQENQLQEKEKPDSSLPETSK KEHISAENMSLETLRNSSPEDLFDEI

Sequence Similarities

Belongs to the XRCC4 family.

Full Length

Full L.

GENE INFORMATION

Gene Name

[XRCC4 X-ray repair complementing defective repair in Chinese hamster cells 4 \[Homo sapiens \]](#)

Official Symbol

[XRCC4](#)

Synonyms

XRCC4; X-ray repair complementing defective repair in Chinese hamster cells 4; DNA repair protein XRCC4; X ray repair; complementing defective; repair in Chinese hamster;

Gene ID

[7518](#)

mRNA Refseq

[NM_022550](#)

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Protein Refseq	NP_072044
MIM	194363
Uniprot ID	Q13426
Chromosome Location	5q14.2
Pathway	2-LTR circle formation, organism-specific biosystem; DNA Repair, organism-specific biosystem; Double-Strand Break Repair, organism-specific biosystem; Early Phase of HIV Life Cycle, organism-specific biosystem; HIV Infection, organism-specific biosystem;
Function	NOT DNA binding; NOT ligase activity; protein C-terminus binding; protein binding;

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