

Recombinant Full Length Human XRCC4 Protein, C-Flag-tagged

Cat. No. XRCC4-420HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human XRCC4 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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 breaks. This protein plays a role in both non-homologous end joining and the completion of V(D)J recombination. Mutations in this gene can cause short stature, microcephaly, and endocrine dysfunction (SSMED). Alternate transcript variants such as NM_022406 are unlikely to be expressed in some individuals due to a polymorphism (rs1805377) in the last splice acceptor site.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	37.9 kDa
AA Sequence	MERKISRHLVSEPSITHFLQVSWEKTLESGFVITLTDGHSAWTGTVSESEISQEADD MAMEKKGKYVGEL RKALLSGAGPADVYTFNFSKESCYFFFEKNLKDVSFRLGSFNLE KVENPAEVIRELICyclDTIAENQAK NEHLQKENERLLRDWNDVQGRFEKCVSAKE ALETDLYKRFILVLNEKKTIRSLHNKLLNAAQEREKDIK QEGETAICSEMTADRDVP YDESTDEESENQTDLSGLASAAVSKDDSISSLDVTDIAPSRKRRQRMQRNL

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GTEPKMAPQENQLQEKENSRPDSSLPETSKKEHISAENMSLETLRNSSPEDLFDEIT
RTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Non-homologous end-joining
Full Length	Full L.

GENE INFORMATION

Gene Name	XRCC4 X-ray repair cross complementing 4 [Homo sapiens (human)]
Official Symbol	XRCC4
Synonyms	SSMED; hXRCC4
Gene ID	7518

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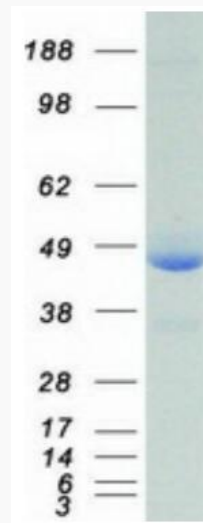
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mRNA Refseq [NM_022550.4](#)

Protein Refseq [NP_072044.1](#)

MIM [194363](#)

UniProt ID [Q13426](#)



Coomassie blue staining of purified XRCC4 protein.

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