Recombinant Human XRCC4 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. XRCC4-078H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	XRCC4 MS Standard C13 and N15-labeled recombinant protein (NP_072044) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	37.9 kDa
AA Sequence	MERKISRIHLVSEPSITHFLQVSWEKTLESGFVITLTDGHSAWTGTVSESEISQEADD MAMEKGKYVGELRKALLSGAGPADVYTFNFSKESCYFFFEKNLKDVSFRLGSFNLE KVENPAEVIRELICYCLDTIAENQAKNEHLQKENERLLRDWNDVQGRFEKCVSAKEA LETDLYKRFILVLNEKKTKIRSLHNKLLNAAQEREKDIKQEGETAICSEMTADRDPVYD ESTDEESENQTDLSGLASAAVSKDDSIISSLDVTDIAPSRKRRQRMQRNLGTEPKMA PQENQLQEKENSRPDSSLPETSKKEHISAENMSLETLRNSSPEDLFDEITRTRPLEQ

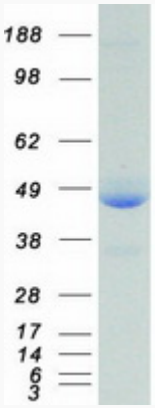
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	KLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	XRCC4 X-ray repair cross complementing 4 [Homo sapiens (human)]
Official Symbol	XRCC4
Synonyms	XRCC4; X-ray repair cross complementing 4; SSMED; DNA repair protein XRCC4; X-ray repair complementing defective repair in Chinese hamster cells 4
Gene ID	7518
mRNA Refseq	NM_022550
Protein Refseq	NP_072044
MIM	194363
UniProt ID	Q13426

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SDS-PAGE	

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