

Recombinant Human XRCC1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. XRCC1-4675H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	XRCC1 MS Standard C13 and N15-labeled recombinant protein (NP_006288) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is involved in the efficient repair of DNA single-strand breaks formed by exposure to ionizing radiation and alkylating agents. This protein interacts with DNA ligase III, polymerase beta and poly (ADP-ribose) polymerase to participate in the base excision repair pathway. It may play a role in DNA processing during meiosis and recombination in germ cells. A rare microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity.
Molecular Mass	69.5 kDa
AA Sequence	MPEIRLRHVVSCSSQDSTHCAENLLKADTYRKWRAAKAGEKTISVVLQLEKEEQIHS VDIGNDGSAFVEVLVGSSAGGAGEQDYEVLLVTSSFMSPSESRSRGSNPNRVRMFG PDKLVRAAAEKRWDRVKIVCSQPYSKDSFPGLSFVRFHSPDPKDEAEAPSQKVTVT KLGQFRVKEEDESANSLRPGALFFSRINKTSPVTASDPAGPSYAAATLQASSAASSA SPVSRAIGSTSKPQESPKGKRKLDLNQEEKKTPSKPPAQLSPSVPKRPKLPAPTRTP ATAPVPARAQAQAVTGKPRGEGTEPRRPRAGPEELGKILQGVVVVLSGFQNPFRSEL

 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

RDKALELGAKYRPDWTRDSTHLICAFANTPKYSQVLGLGGRIVRKEWVLDCHRMRR
 RLPSQRYLMAGPGSSSEEDASHSGSGDEAPKLPQKQPQTKTKPTQAAGPSSPQ
 KPPTPEETKAASPVLQEDIDIEGVQSEGQDNGAEDSGDTEDELRRVAEQKEHRLPP
 GQEENGEDPYAGSTDENTDSEEHQEPPDLPVPELPDFFQGKHFFLYGEFPGDERR
 KLIRYVTAFNGELEDYMSDRVQFVITAQEWDPSEFEEALMDNPSLAFVRPRWIYSCNE
 KQKLLPHQLYGVVPQATRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 XRCC1 X-ray repair complementing defective repair in Chinese hamster cells 1 [Homo sapiens (human)]

Official Symbol XRCC1

Synonyms XRCC1; X-ray repair complementing defective repair in Chinese hamster cells 1; RCC; DNA repair protein XRCC1; X-ray repair cross-complementing protein 1; X-ray-repair, complementing defective, repair in Chinese hamster;

Gene ID 7515

 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

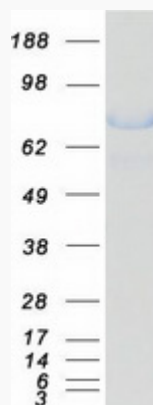
mRNA Refseq [NM_006297](#)

Protein Refseq [NP_006288](#)

MIM [194360](#)

UniProt ID [P18887](#)

SDS-PAGE



 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