Recombinant Human XRCC1 Protein, His-tagged

Cat. No. XRCC1-596H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human XRCC1 Protein (Met1-Ser219) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Ser219
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 meiogenesis and recombination in germ cells. A rare microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 27.5 kDa Accurate Molecular Mass: 28&33 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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

Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

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
mRNA Refseq	NM_006297
Protein Refseq	NP_006288
MIM	194360

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UniProt ID	P18887

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