

Recombinant Mouse Xrcc1 Protein, His-tagged

Cat. No. Xrcc1-597M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Xrcc1 Protein (Met1-Ser261) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Met1-Ser261
Description	Contributes to 3' overhang single-stranded DNA endodeoxyribonuclease activity. Involved in several processes, including DNA metabolic process; negative regulation of protein ADP-ribosylation; and regulation of response to DNA damage stimulus. Acts upstream of or within DNA repair and hippocampus development. Located in chromosome, telomeric region. Part of ERCC4-ERCC1 complex. Is expressed in several structures, including alimentary system; brain; genitourinary system; hemolymphoid system gland; and liver and biliary system. Human ortholog(s) of this gene implicated in several diseases, including autosomal recessive spinocerebellar ataxia 26; carcinoma (multiple); hematologic cancer (multiple); hepatitis A; and reproductive organ cancer (multiple). Orthologous to human XRCC1 (X-ray repair cross complementing 1).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 31.7 kDa Accurate Molecular Mass: 39 kDa

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
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 [Mus musculus (house mouse)]
Official Symbol	Xrcc1
Synonyms	XRCC1; X-ray repair complementing defective repair in Chinese hamster cells 1; DNA repair protein XRCC1; X-ray repair cross-complementing protein 1; Xrcc-1; MGC102556
Gene ID	22594
mRNA Refseq	NM_009532

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