

Recombinant human XRCC3 protein

Catalog Number: ATGP1876

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-346aa

UniProt No.

O43542

NCBI Accession No.

NP_005423

Alternative Names

X-ray repair cross complementing protein 3, RAD51-like

PRODUCT SPECIFICATION

Molecular Weight

40 kDa (366aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.4M urea

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

XRCC3, also known as RAD51-like, belongs to the RecA family and RAD51 subfamily. It participates in homologous recombination to maintain chromosome stability and repair DNA damage. This protein functionally complements Chinese hamster irs1SF, a repair-deficient mutant that exhibits hypersensitivity to a number of different DNA-damaging agents and is chromosomally unstable. Recombinant human XRCC3 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MDLDDLNLN RIIAAIKKAK LKSVKEVLHF SGPDLKRLTN LSSPEVWHLL RTASLHLRGS
SILTALQLHQ QKERFPTQHQ RLSLGCPVLD ALLRGGLPLD GITELAGRSS AGKTQLALQL CLAVQFPRQH GGLEAGAVYI
CTEDAFPHKR LQQLMAQQPR LRTDVPCELL QKLRFGSQIF IEHVADVDTL LECVNKKVPV LLSRGMARLV VIDSVAAPFR
CEFDSQASAP RARHLQSLGA TLRELSSAFQ SPVLCINQVT EAMEEQGAH GPLGFWDERV SPALGITWAN QLLVRLADR
LREEAALGC PARTLRVLSA PHLPPSSCSY TISAEGVRGT PGTQSH

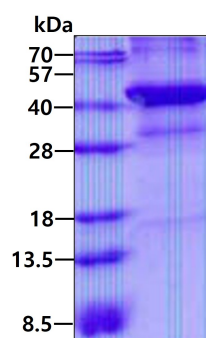
General References

Tebbs RS. et al. (1995) Proc Natl Acad Sci U S A. 92:6354-6358.

Miller KA. et al. (2002) J Biol Chem. 277:8406-8411.

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.