NKMAXBIO We support you, we believe in your research

Recombinant human NHEJ1 protein

Catalog Number: ATGP1684

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-224aa

UniProt No.

O9H9O4

NCBI Accession No.

NP 079058

Alternative Names

Non-homologous end-joining factor 1, XLF

PRODUCT SPECIFICATION

Molecular Weight

27.8 kDa (247aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 20% glycerol,1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

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

Non-homologous end-joining factor 1, also known as NHEJ1, belongs to the XLF family. NHEJ1 was originally discovered as the protein mutated in five patients with growth retardation, microcephaly, and immunodeficiency. The protein is required for the non-homologous end joining (NHEJ) pathway of DNA repair. Patients with NHEJ1 mutations also have immunodeficiency due to a defect in V (D) J recombination, which utilizes NHEJ to promote immune system diversity. XLF interacts with DNA ligase IV and XRCC4 and is thought to be involved in the ligation step of NHEJ. Recombinant human NHEJ1 protein, fused to His-tag at N-terminus, was



NKMAXBio We support you, we believe in your research

Recombinant human NHEJ1 protein

Catalog Number: ATGP1684

expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

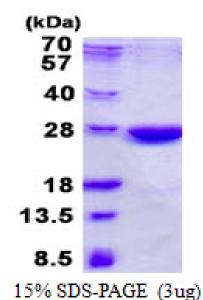
MGSSHHHHHH SSGLVPRGSH MGSMEELEQG LLMQPWAWLQ LAENSLLAKV FITKQGYALL VSDLQQVWHE QVDTSVVSQR AKELNKRLTA PPAAFLCHLD NLLRPLLKDA AHPSEATFSC DCVADALILR VRSELSGLPF YWNFHCMLAS PSLVSQHLIR PLMGMSLALQ CQVRELATLL HMKDLEIQDY QESGATLIRD RLKTEPFEEN SFLEQFMIEK LPEACSIGDG KPFVMNLQDL YMAVTTQ

General References

Buck D., et al. (2006) Cell. 124:287-299 Ahnesorg P., et al. (2006) Cell. 124:301-313

DATA

SDS-PAGE



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

