

## NHEJ1 Human

**Description:** NHEJ1 Human Recombinant produced in E. coli is a single polypeptide chain containing 247 amino acids (1-224) and having a molecular mass of 27.8 kDa. NHEJ1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-1200

For research use only.

**Synonyms:** Nonhomologous end-joining factor 1, Protein cernunnos, XRCC4-like factor, Cernunnos, XLF, FLJ12610.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGS MEELEQG LLMQPWAWLQ  
LAENSLAKV FITKQGYALL VSDLQQVWHE QVDTSVVSQR AKELNKRLLTA PPAAFLCHLD  
NLLRPLLKDA AHPSEATFSC DCVADALILR VRSELSGLPF YWNFHCMLAS PSLVSQHLIR  
PLMGMSLALQ CQVRELATLL HMKDLEIQDY QESGATLIRD RLKTEPFEEF SFLEQFMIEK  
LPEACSIGDG K

**Purity:** Greater than 90% as determined by SDS-PAGE.

### Formulation:

The NHEJ1 solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 1mM DTT and 20% glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

Non-homologous end-joining factor 1 (NHEJ1) is a member of the XLF family. NHEJ1 is a DNA repair factor vital for the nonhomologous end-joining pathway, which preferentially mediates repair of double-stranded breaks. NHEJ1 gene mutations cause different kinds of severe combined immunodeficiency disorders. NHEJ1 was initially detected as the protein mutated in five patients with growth retardation, microcephaly, and immunodeficiency. In addition, patients with NHEJ1 mutations have immunodeficiency caused by a defect in V(D)J recombination, which employs NHEJ to promote immune system diversity.

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