

NHEJ1, 1-224aa, Human, His tag, E.coli

Cat.NO.: TP03153

3th Edition

Synonyms:Non-homologous end-joining factor 1, XLF.

**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.

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

Molecular Weight: 27.8 kDa (247aa) confirmed by MALDI-TOF

## Sequences:

MGSSHHHHHHSSGLVPRGSHMGSMEELEQGLLMQPWAWLQLAENSLLAKVFITKQGYALLVSDLQQVWHEQVD TSVVSQRAKELNKRLTAPPAAFLCHLDNLLRPLLKDAAHPSEATFSCDCVADALILRVRSELSGLPFYWNFHCMLAS PSLVSQHLIRPLMGMSLALQCQVRELATLLHMKDLEIQDYQESGATLIRDRLKTEPFEENSFLEQFMIEKLPEACSIG DGKPFVMNLQDLYMAVTTQ

Purity:> 95% by HPLC

Concentration:0.5 mg/ml

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.