
Product Data Sheet

Product Name: NHEJ1 Human

Cat. No.: GP24038

Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Nonhomologous end-joining factor 1; Protein cernunnos; XRCC4-like factor; Cernunnos; XLF; FLJ12610.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGS MEELEQG LLMQPWAWLQ LAENSLAKV FITKQGYALL VSDLQQVWHE QVDTSVVSQR AKELNKRLTA PPAFLCHLD NLLRPLLKDA AHPSEATFSC DCVADALILR VRSELSGLPF YWNFHCMLAS PSLVSQHLIR PLMGMSLALQ CQVRELATLL HMKDLEIQDY QESGATLIRD RLKTEPFEEN SFLEQFMIEK LPEACSIGDG KPFVMNLQDL YMAVTTQ		
Formulation	The NHEJ1 solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 1mM DTT and 20% glycerol.		

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.

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.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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