9051 Mira Mesa Blvd, #910094
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NHEJ1 Human

Nonhomologous End-Joining Factor 1 Human Recombinant
RCP1491

Product Overview

Name	NHEJ1 Human
Description	
Nonhomologous End-Joining Factor 1 Human Recombinant	
Accession (Primary)	Q9H9Q4
Synonyms	
Nonhomologous end-joining factor 1, Protein cernunnos, XRCC4-like factor, Cernunnos, XLF, FLJ12610.	
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.	
Source	
E.coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
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.	
Purity	
Greater than 90% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MGS MEELEQG LLMQPWAWLQ LAENSLLAKV FITKQGYALL VSDLQQVWHE QVDTSVVSQR AKELNKRLTA PPAAFLCHLD NLLRPLLKDA AHPSEATFSC DCVADALILR VRSELSGLPF YWNFHCMLAS PSLVSQHLIR PLMGMSLALQ CQVRELATLL HMKDLEIQDY QESGATLIRD RLKTEPFEEN	

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SFLEQFMIEK LPEACSIGDG KPFVMNLQDL YMAVTTQ

Precautions

NHEJ1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9H9Q4)