

Recombinant Human NHEJ1 Protein, His-tagged

Cat. No. NHEJ1-2489H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human NHEJ1 Protein (Met1-Ser299) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Ser299
Description	Double-strand breaks in DNA result from genotoxic stresses and are among the most damaging of DNA lesions. This gene encodes a DNA repair factor essential for the nonhomologous end-joining pathway, which preferentially mediates repair of double-stranded breaks. Mutations in this gene cause different kinds of severe combined immunodeficiency disorders.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 36.7 kDa Accurate Molecular Mass: 43 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 80%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	NHEJ1 nonhomologous end-joining factor 1 [Homo sapiens (human)]
Official Symbol	NHEJ1
Synonyms	NHEJ1; nonhomologous end-joining factor 1; non-homologous end-joining factor 1; Cernunnos; FLJ12610; XLF; XRCC4-like factor; protein cernunnos;
Gene ID	79840
mRNA Refseq	NM_024782
Protein Refseq	NP_079058
MIM	611290

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UniProt ID

Q9H9Q4

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