

Recombinant Mouse Nhej1 Protein, Myc/DDK-tagged

Cat. No. Nhej1-4411M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length non-homologous end joining factor 1 (Nhej1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	DNA repair protein involved in DNA nonhomologous end joining (NHEJ) required for double-strand break (DSB) repair and V(D)J recombination. May serve as a bridge between XRCC4 and the other NHEJ factors located at DNA ends, or may participate in reconfiguration of the end bound NHEJ factors to allow XRCC4 access to the DNA termini. It may act in concert with XRCC6/XRCC5 (Ku) to stimulate XRCC4-mediated joining of blunt ends and several types of mismatched ends that are noncomplementary or partially complementary. Binds DNA in a length-dependent manner.
Molecular Mass	32.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration	>50 µg/mL as determined by microplate BCA method
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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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GENE INFORMATION

Gene Name	Nhej1 non-homologous end joining factor 1 [Mus musculus (house mouse)]
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Official Symbol	Nhej1
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Synonyms	NHEJ1; nonhomologous end-joining factor 1; non-homologous end-joining factor 1; XRCC4-like factor; protein cernunnos; XLF; cernunnos; 1700029B21Rik; MGC130191; MGC130192
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Gene ID	75570
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mRNA Refseq	NM_029342
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Protein Refseq	NP_083618
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UniProt ID	Q3KNJ2
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