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NHEJ1 Protein (AA 1-299) (His tag)



Image



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Overview

Quantity:	1 mg
Target:	NHEJ1
Protein Characteristics:	AA 1-299
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NHEJ1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB), Crystallization (Crys)

Product Details

Sequer	nce:
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MEELEQGLLM QPWAWLQLAE NSLLAKVFIT KQGYALLVSD LQQVWHEQVD TSVVSQRAKE LNKRLTAPPA AFLCHLDNLL RPLLKDAAHP SEATFSCDCV ADALILRVRS ELSGLPFYWN FHCMLASPSL VSQHLIRPLM GMSLALQCQV RELATLLHMK DLEIQDYQES GATLIRDRLK TEPFEENSFL EQFMIEKLPE ACSIGDGKPF VMNLQDLYMA VTTQEVQVGQ KHQGAGDPHT SNSASLQGID SQCVNQPEQL VSSAPTLSAP EKESTGTSGP LQRPQLSKVK RKKPRGLFS

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Human NHEJ1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our

experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

Target Details

Target:	NHEJ1
Alternative Name:	NHEJ1 (NHEJ1 Products)
Background: 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 (PubMed:16439204,
	PubMed:16439205, PubMed:17470781). Binds DNA in a length-dependent manner
	(PubMed:17317666). {ECO:0000269 PubMed:16439204, ECO:0000269 PubMed:16439205,
	ECO:0000269 PubMed:17317666, ECO:0000269 PubMed:17470781}.
:	34.3 kDa Including tag.

Molecular Weight:	34.3 kDa Including tag.
UniProt:	Q9H9Q4
Pathways:	DNA Damage Repair

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a
	guarantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be
	insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to
	increase solubility. We will discuss all possible options with you in detail to assure that you
	receive your protein of interest.

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

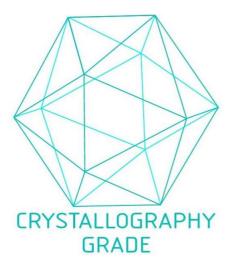


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process