

Datasheet for ABIN6387017 NHEJ1 Protein (His tag)



[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	NHEJ1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NHEJ1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Purification:	purified by chromatography
Purity:	> 90 % by SDS - PAGE

Target Details

Target:	NHEJ1
Alternative Name:	NHEJ1 (NHEJ1 Products)
Background:	Non-homologous end-joining factor 1, also known as NHEJ1, belongs to the XLF family. NHEJ1 was originally discovered as the protein mutated in five patients with growth retardation, microcephaly, and immunodeficiency. The protein is required for the non-homologous end joining (NHEJ) pathway of DNA repair. Patients with NHEJ1 mutations also have immunodeficiency due to a defect in V(D)J recombination, which utilizes NHEJ to promote immune system diversity. XLF interacts with DNA ligase IV and XRCC4 and is thought to be

Target Details

involved in the ligation step of NHEJ. Recombinant human NHEJ1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Molecular Weight: 27.8 kDa (247aa) confirmed by MALDI-TOF

NCBI Accession: [NP_079058](#)

Pathways: [DNA Damage Repair](#)

Application Details

Comment: Synonyms: Non-homologous end-joining factor 1, XLF

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.5 mg/ml (determined by Bradford assay)

Buffer: 20 mM Tris-HCl buffer (pH 8.0) containing 0.1 M NaCl, 20% glycerol, 1 mM DTT

Storage: 4 °C

Storage Comment: Avoid repeated freezing and thawing cycles.

Images

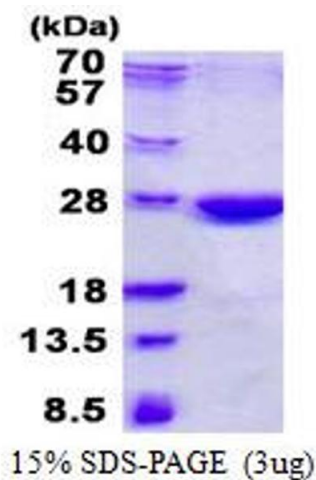


Image 1.