

Recombinant Human Nei Endonuclease VIII-Like 1 (E. coli), His-tagged

Cat. No. NEIL1-4827H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NEIL1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
Description	NEIL1 belongs to a class of DNA glycosylases homologous to the bacterial Fpg/Nei family. These glycosylases initiate the first step in base excision repair by cleaving bases damaged by reactive oxygen species and introducing a DNA strand break via the associated lyase reaction.
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT, 0.1mM PMSF.
Molecular Weight	45.8 kDa (410aa), confirmed by MALDI-TOF.
Purity	> 90% by SDS-PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MPEGPELHLA SQFVNEACRA LVFGGCVEKS SVSRNPEVPF ESSAYRISAS ARGKELRLIL SPLPGAQPQQEPLALVFRFG MSGSFQLVPR EELPRHAHLR FYTAPPGPRL ALCFVDIRRF GRWDLGGKWQ

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PGRGPCVLQE YQQFRENVLR NLADKAFDRPICEALLDQRF FNGIGNYLRA
 EILYRLKIPP FEKARSVLEA LQQHRPSPEL TLSQKIRTKL QNPDLLELCH
 SVPKEVVQLG GKGYGSESGEEDFAAFRAWL RCYGMPPGMSS LQDRHGRTIW
 FQGDPGPLAP KGRKSRKKKS KATQLSPEDR VEDALPPSKA PSRTRRAKRD
 LPKRTATQRPEGTSLQQDPE APTVPKKGRR KGRQAASGHC RPRKVKADIP
 SLEPEGTSAS

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Base excision repair

GENE INFORMATION

Gene Name

NEIL1 nei endonuclease VIII-like 1 (E. coli) [Homo sapiens]

Official Symbol

NEIL1

Synonyms

NEIL1; nei endonuclease VIII-like 1 (E. coli); FPG1; NEI1; hFPG1; FLJ22402; endonuclease 8-like 1; nei homolog 1; endonuclease VIII; OTTHUMP00000183482; nei-like protein 1; endonuclease VIII-like 1; DNA glycosylase/AP lyase Neil1; DNA-(apurinic or apyrimidinic site) lyase Neil1; DNA glycosylase/AP lyase Neil1; Endonuclease VIII-like 1; EC 3.2.2; Nei homolog 1; EC 4.2.99.18; Nei-like protein 1

Gene ID

79661

mRNA Refseq

NM_024608

Protein Refseq

NP_078884

MIM

608844

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UniProt ID	Q96FI4
Chromosome Location	15q24.2
Function	DNA N-glycosylase activity; DNA-(apurinic or apyrimidinic site) lyase activity; damaged DNA binding; hydrolase activity, acting on glycosyl bonds; lyase activity; protein C-terminus binding; zinc ion binding
PDB rendering based on 1tdh.	