

# Recombinant Human Nei Endonuclease VIII-like 2 (E. coli), His-tagged

**Cat. No.** NEIL2-1963H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant humanNEIL2 protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | Endonuclease 8-like2, also known as NEIL2, belongs to a class of DNA glycosylases homologous tothe bacterial Fpg/Nei family. These glycosylases initiate the first step inbase excision repair by cleaving bases damaged by reactive oxygen species andintroducing a DNA strand break via the associated lyase reaction. It hasnegligible or undetectable activity with 8-oxoguanine, thymine glycol,2-hydroxyadenine, hypoxanthine, and xanthine. |
| <b>Form</b>             | Liquid. In 20mMTris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl.                                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular Weight</b> | 39.4 kDa (356aa),confirmed by MALDI-TOF.                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>           | > 85% by SDS - PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Concentration</b>    | 0.5 mg/ml(determined by Bradford assay).                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Sequences of</b>     | MGSSHHHHHHSSGLVPRGSH MGSHMPEGPL VRKFHHLVSP FVGQQVVKTG                                                                                                                                                                                                                                                                                                                                                                                              |

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**aminoacids**

GSSKKLQPAS LQSLWLQDTQ VHGKKLFLRFDLDEEMGPPG SSPTPEPPQK  
 EVQKEGAADP KQVGEPGSGQK TLDGSSRSAE LVPQGEDDSE  
 YLERDAPAGDAGRWLRSFG LFGSVWVNDP SRAKKANKRG DWRDPSRLV  
 LHFGGGGFLA FYNCQLSWSS SPVVTPTCDILSEKFHRGQA LEALGQAQPV  
 CYTLLDQRYF SGLGNIKNE ALYRAGIHPL SLGSVLSASR  
 REVLVDHVVEFSTAWLQGGF QGRPQHTQVY QKEQCPAGHQ VMKEAFGPED  
 GLQRLTWWCP QCQPQLSEEP EQCQFS

**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.

**OfficialSymbol**

NEIL2

**GENE INFORMATION**
**Gene Name**

NEIL2 nei endonucleaseVIII-like 2 (E. coli) [ Homo sapiens ]

**Synonyms**

NEIL2; neiendonuclease VIII-like 2 (E. coli); NEH2; NEI2; endonuclease 8-like 2; neilike 2; nei homolog 2; nei-like protein 2; endonuclease VIII-like 2; DNAglycosylase/AP lyase Neil2; DNA-(apurinic or apyrimidinic site) lyase Neil2

**Gene ID**

252969

**mRNA Refseq**

NM\_145043

**Protein Refseq**

NP\_659480

**MIM**

608933

**UniProt ID**

Q969S2

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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 8p23.1                                                                                                                                                                          |
| <b>Pathway</b>             | Base excision repair                                                                                                                                                            |
| <b>Function</b>            | DNA-(apurinic orapyrimidinic site) lyase activity; damaged DNA binding; hydrolase activity,hydrolyzing N-glycosyl compounds; lyase activity; metal ion binding; zinc ionbinding |

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