

Recombinant Human NEIL2, His-tagged

Cat. No. NEIL2-15866H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NEIL2 protein, fused to His tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-332aa
Description	Endonuclease 8-like 2, also known as NEIL2, 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. It has negligible or undetectable activity with 8-oxoguanine, thymine glycol, 2-hydroxyadenine, hypoxanthine, and xanthine.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl
Molecular Mass	39.4 kDa (356aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMPEGPL VRKFHHLVSP FVGQQVVKTG GSSKKLQPAS LQSLWLQDTQ VHGKKLFLRF DLDEEMGPPG SSPTPEPPQK EVQKEGAADP KQVGEPGSGQK TLDGSSRSAE LVPQGEDDSE YLERDAPAGD AGRWLRVSFG LFGSVWVWDF SRAKKANKRG DWRDPSRLV LHFGGGGFLA

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FYNCQLSWSS SPVVTPTCDI LSEKFHRGQA LEALGQAQPV CYTLLDQRYF
SGLGNIKNE ALYRAGIHPL SLGSVLSASR REVLVDHVVE FSTAWLQGKF
QGRPQHTQVY QKEQCPAGHQ VMKEAFGPED GLQRLTWWCP QCQPQLSEEP
EQCQFS

Purity >85% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term. For long term storage, aliquot and store at at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name NEIL2 nei endonuclease VIII-like 2 (E. coli) [Homo sapiens]

Official Symbol NEIL2

Synonyms NEIL2; nei endonuclease VIII-like 2 (E. coli); nei like 2 (E. coli); endonuclease 8-like 2; FLJ31644; MGC2832; MGC4505; NEH2; nei like 2; nei homolog 2; nei-like protein 2; endonuclease VIII-like 2; DNA glycosylase/AP lyase Neil2; DNA-(apurinic or apyrimidinic site) lyase Neil2; NEI2;

Gene ID 252969

mRNA Refseq NM_145043

Protein Refseq NP_659480

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MIM	608933
UniProt ID	Q969S2
Chromosome Location	8p23.1
Pathway	Base excision repair, organism-specific biosystem; Base excision repair, conserved biosystem;
Function	DNA-(apurinic or apyrimidinic site) lyase activity; damaged DNA binding; hydrolase activity, hydrolyzing N-glycosyl compounds; lyase activity; metal ion binding; zinc ion binding;

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