

Recombinant Human NEIL2 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. NEIL2-351H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NEIL2 MS Standard C13 and N15-labeled recombinant protein (NP_659480) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the Fpg/Nei family of DNA glycosylases. These glycosylases initiate the first step in base excision repair by cleaving oxidatively damaged bases and introducing a DNA strand break via their abasic site lyase activity. This enzyme is primarily associated with DNA repair during transcription and acts preferentially on cytosine-derived lesions, particularly 5-hydroxyuracil and 5-hydroxycytosine. It contains an N-terminal catalytic domain, a hinge region, and a C-terminal DNA-binding domain with helix-two-turn-helix and zinc finger motifs. This enzyme interacts with the X-ray cross complementing factor 1 scaffold protein as part of a multi-protein DNA repair complex. A pseudogene of this gene has been identified. [provided by RefSeq, Mar 2017]
Molecular Mass	36.8 kDa
AA Sequence	MPEGPLVRKFHHLVSPFVGQQVVKTTGGSSKKLQPASLQSLWLQDTQVHGKKLFLR FDLDEEMGPPGSSPTPEPPQKEVQKEGAADPKQVGEPGSGQKTLDGSSRSAELVPQ GEDDSEYLERDAPAGDAGRWLRLVSFGLFGSVVWNDFSRAKKANKRGDWRDPSPR

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LVLHFGGGGFLAFYNCQLSWSSSPVVTPTCDILSEKFHRGQALEALGQAQPVCYTL
LDQRYFSGGLGNIKNEALYRAGIHPLSLGSLVSASRREVLVDHVVEFSTAWLQGKFQ
GRPQHTQVYQKEQCPAGHQVMKEAFGPEDGLQRLTWWCPQCQPQLSEEPEQCQ
FSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

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

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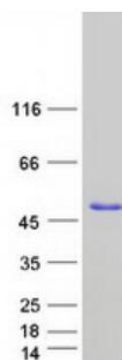
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Protein Refseq NP_659480

MIM 608933

UniProt ID Q969S2

SDS-PAGE



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