

Recombinant Mouse Neil1 Protein, Myc/DDK-tagged

Cat. No. Neil1-4365M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length nei endonuclease VIII-like 1 (E. coli) (cDNA clone MGC:49102 IMAGE:5320651), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Involved in base excision repair of DNA damaged by oxidation or by mutagenic agents. Acts as DNA glycosylase that recognizes and removes damaged bases. Has a preference for oxidized pyrimidines, such as thymine glycol, formamidopyrimidine (Fapy) and 5-hydroxyuracil. Has marginal activity towards 8-oxoguanine. Has AP (apurinic/aprimidinic) lyase activity and introduces nicks in the DNA strand. Cleaves the DNA backbone by beta-delta elimination to generate a single-strand break at the site of the removed base with both 3'- and 5'-phosphates. Has DNA glycosylase/lyase activity towards mismatched uracil and thymine, in particular in U:C and T:C mismatches. Specifically binds 5-hydroxymethylcytosine (5hmC), suggesting that it acts as a specific reader of 5hmC.
Molecular Mass	28.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Neil1 nei endonuclease VIII-like 1 (E. coli) [Mus musculus (house mouse)]
Official Symbol	Neil1
Synonyms	Neil1; nei endonuclease VIII-like 1 (E. coli); NEH1; Nei1; 2810450N13Rik; endonuclease 8-like 1; DNA glycosylase/AP lyase Neil1; DNA-(apurinic or apyrimidinic site) lyase Neil1; endonuclease VIII; endonuclease VIII-like 1; nei homolog 1; nei-like protein 1; EC 4.2.99.18
Gene ID	72774
mRNA Refseq	NM_028347
Protein Refseq	NP_082623
UniProt ID	Q8K4Q6