

## AR50350PU-S

## Human NEIL2 (1-332, His-tag) - Purified

**Alternate names:**

Endonuclease VIII-like 2, NEH2, Nei-like 2

**Quantity:**

50 µg

**Concentration:**

0.5 mg/ml (determined by Bradford assay)

**Background:**

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.

**Uniprot ID:**

[Q969S2](#)

**NCBI:**

[NP\\_659480.1](#)

**GeneID:**

[252969](#)

**Species:**

Human

**Source:**

E. coli

**Format:**

**State:** Liquid purified protein

**Purity:** >85% by SDS - PAGE

**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

**Description:**

Recombinant human NEIL2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**AA Sequence:**

MGSSHHHHH SGLVPRGSH MGSHPGEPGL VRKFHHLVSP FVQQQVVKTG GSSKKLQPAS  
LQSLWLQDTQ VHGGKFLRF DLDEEMGPPG SSPTPEPPQK EVQKEGAADP KQVGEPGSGQK  
TLDGSSRSSE LVPQGEDDSE YLERDAPAGD AGRWLRVSFG LFGSVWVNDF SRAKKANKRG  
DWRDPSPRLV LHFGGGGFLA FYNCQLSWSS SPVVTPTCDI LSEKFHRGQA LEALGQAQPV  
CYTLLDQRYF SGLGNIKNE ALYRAGIHPL SLGSVLSASR REVLVDHVVE FSTAWLQGKF  
QGRPQHTQVY QKEQCPAGHQ VMKEAFGPED GLQRLTWCP QCQPQLSEEP EQCQFS

**Molecular weight:** 39.4 kDa (356aa), confirmed by MALDI-TOF

**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.

**General Readings:**

Hazra TK., et al. (2002) J Biol Chem. 277(34):30417-20. Das D., et al. (2007) J Biol Chem. 282(39):28474-84.

Pictures:

