

Product: NEIL2, 1-332aa , Human, His tag
Catalog #: 01-P1526
Amount: 10µg

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

NCBI Accession No: NP_659480
Full name: NEIL2, 1-332aa , Human, His tag, E.coli
Synonyms: Endonuclease 8-like 2, NEH2, NEI2, Nei-like protein 2

AA Sequence:
 MGSSHHHHHH SSSLVPRGSH MGSHPMEGPL VRKFHHLVSP FVQVQVVKTG GSSKKLQPAS
 LQSLWLQDTQ VHGKKLFLRF DLDEEMGPPG SSPTPEPPQK EVQKEGAADP KQVGEPSGQK
 TLDGSSRSAE LVPQGEDDSE YLERDAPAGD AGRWLRVSFG LFGSVVWNDF SRAKKANKRG
 DWRDPSRLV LHFGGGGFLA FYNCQLSWSS SPVVTPTCDI LSEKFHRGQA LEALGQAQPV
 CYLLDQRYF SGLGNIKNE ALYRAGIHPL SLGSVLSASR REVLVDHVVE FSTAWLQGKF
 QGRPQHTQVY QKEQCPAGHQ VMKEAFGPED GLQRLTWWCP QCQPQLSEEP EQCQFS

SOURCE: Recombinant, E.coli
MOLECULAR WEIGHT: 39.4 kDa (356aa), confirmed by MALDI-TOF
PURITY: > 85% by SDS - PAGE
FORM: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl
ENDOTOXIN:
CONCENTRATION: 0.5 mg/ml (determined by Bradford assay)
STORAGE: Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
REFERENCE: Hazra TK., et al. (2002) J Biol Chem. 277(34):30417-20.
 Das D., et al. (2007) J Biol Chem. 282(39):28474-84.

