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Recombinant human NEIL2 protein

Catalog Number: ATGP1526

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-332aa

UniProt No.
Q969S2

NCBI Accession No.
NP_659480

Alternative Names
Endonuclease 8-like 2, NEH2, NEI2, Nei-like protein 2

PRODUCT SPECIFICATION

Molecular Weight
39.4 kDa (356aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

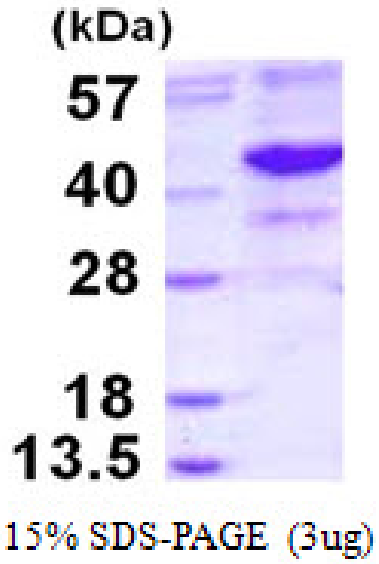
MGSSHHHHHH SSGLVPRGSH MGSHMPEGPL VRKFHHLVSP FVGQQVVKTG GSSKKLQPAS LQSLWLQDTQ VHGKKLFLRF DLDEEMGPPG SSPTPEPPQK EVQKEGAADP KQVGEPSGQK TLDGSSRSAE LVPQGEDDSE YLERDAPAGD AGRWLRVSFG LFGSVWVNDF SRAKKANKRG DWRDPSPRLV LHFGGGGFLA FYNCQLSWSS SPVVTPTCDI LSEKFHRGQA LEALGQAQPV CYTLLDQRYF SGLGNIIKNE ALYRAGIHPL SLGSVLSASR REVLVDHVVE FSTAWLQGKF QGRPQHTQVY QKEQCPAGHQ VMKEAFGPED GLQRLTWWCP QCQPQLSEEP EQCQFS

General References

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

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.