

Product datasheet for **AR50350PU-S**

NEIL2 (1-332, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	NEIL2 (1-332, His-tag) human recombinant protein, 50 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSHPMEGPL VRKFHHLVSP FVGQQVKTG GSSKKLQPAS LQSLWLQDTQ VHGKKLFLRF DLDEEMGPPG SSPTPEPPQK EVQKEGAADP KQVGEPSGQK TLDGSSRSAE LVPQGEDDSE YLERDAPAGD AGRWLRVSFG LFGSVWVWVDF SRAKKANKRG DWRDPSPRLV LHFGGGGFLA FYNCQLSWSS SPVWTPCDI LSEKFHRGQA LEALGQAQPV CYLLDQRYF SGLGNIKNE ALYRAGIHPL SLGSVLSASR REVLVDHVVE FSTAWLQGKF QGRPQHTQVY QKEQCPAGHQ VMKEAFGPED GLQRLTWWCP QCQPQLSEEP EQCQFS
Tag:	His-tag
Predicted MW:	39.4 kDa
Concentration:	lot specific
Purity:	>85% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol, 0.1M NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human NEIL2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
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.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001129218
Locus ID:	252969
UniProt ID:	Q969S2 , A0A024R361
Cytogenetics:	8p23.1
Synonyms:	NEH2; NEI2



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Summary:

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]

Protein Families:

Druggable Genome

Protein Pathways:

Base excision repair

Product images: