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32-2603: NEIL2 Recombinant Protein

Alternative Name : Endonuclease 8-like 2,DNA glycosylase/AP lyase Neil2,DNA-(apurinic or apyrimidinic site) lyase Neil2,Endonuclease VIII-like 2,Nei homolog 2,NEH2,Nei-like protein 2,NEIL2,NEH2.

Description

Source : Escherichia Coli. NEIL2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 356 amino acids (1-332) and having a molecular mass of 39.4kDa.NEIL2 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Endonuclease 8-like 2 (NEIL2) is a member of a class of DNA glycosylases homologous to the bacterial Fpg/Nei family. These glycosylases set off the first step in base excision repair by cleaving bases damaged by reactive oxygen species and introducing a DNA strand break through the associated lyase reaction. NEIL2 is involved in base excision repair of DNA damaged by oxidation or by mutagenic agents. NEIL2 has DNA glycosylase activity towards 5-hydroxyuracil and other oxidized derivatives of cytosine with a preference for mismatched double stranded DNA (DNA bubbles). NEIL2 has insignificant or undetectable activity with 8-oxoguanine, thymine glycol, 2-hydroxyadenine, hypoxanthine, and xanthine. NEIL2 also has AP (apurinic/apyrimidinic) lyase activity and creates incisions in the DNA strand. NEIL2 cleaves the DNA backbone by beta-delta exclusion to produce a single-strand break at the site of the removed base with both 3'- and 5'-phosphates. NEIL2 is found in the testis, skeletal muscle, heart, brain, placenta, lung, pancreas, kidney and liver.

Product Info

Amount :	10 µg
Purification :	Greater than 85.0% as determined by SDS-PAGE.
Content :	The NEIL2 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 0.1M NaCl.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid :	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.