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32-2602: NEIL1 Recombinant Protein

Alternative Name : Endonuclease 8-like 1,DNA glycosylase/AP lyase Neil1,DNA-(apurinic or apyrimidinic site) lyase Neil1,Endonuclease VIII-like 1,FPG1,Nei homolog 1,NEH1,Nei-like protein 1,NEIL1,NEI1,hFPG1.

Description

Source : Escherichia Coli. NEIL1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 410 amino acids (1-390) and having a molecular mass of 45.8kDa.NEIL1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. NEIL1 is a member of 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. NEIL1 participates in the DNA repair pathway by initiating base excision repair by removing damaged bases, primarily oxidized pyrimidines.

Product Info

Amount :	5 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	The NEIL1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl, 1mM DTT and 0.1mM PMSF.
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 MPEGPELHLA SQFVNEACRA LVFGGCVEKS SVSRNPEVPF ESSAYRISAS ARGKELRLIL SPLPGAQPQQ EPLALVFRFG MSGSFQLVPR EELPRHAHLR FYTAPPGPRL ALCFVDIRRF GRWDLGGKWQ PGRGPCVLQE YQQFRENVLR NLADKAFDRP ICEALLDQRF FNGIGNYLRA EILYRLKIPP FEKARSVLEA LQQHRPSPEL TLSQKIRTKL QNPDLLELCH SVPKEVVQLG GKGYGSESGE EDFAAFRAWL RCYGMPGMSS LQDRHGRTIW FQGDPGPLAP KGRKSRKKKS KATQLSPEDR VEDALPPSKA PSRTRRAKRD LPKRTATQRP EGTSLQQDPE APTVPKKGRR KGRQAASGHC RPRKVKADIP SLEPEGTSAS.

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