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NEIL1 Human

Catalog #:ENPS-227

For research use only.

Description: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.

Synonyms: 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.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MPEGPELHLA SQFVNEACRA LVFGGCVEKS SVSRNPEVPF ESSAYRISAS ARGKELRLIL SPLPGAQPQQ EPLALVFRFG MSGSFQLVPR EELPRHAHLR FYTAPPGPRL ALCFVDIRRF GRWDLGGKWQ PGRGPCVLQE YQQFRENVLR NLADKAFDRP ICEALLDQRF FNGIGNYLRA EILYRLKIPP FEKARSVLEA LQQHRPSPEL TL

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:
The NEIL1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl, 1mM DTT and 0.1mM PMSF.

Stability:
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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
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.

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