

NEIL1 Human

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.

Catalog #: ENPS-227

For research use only.

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
LVFGGCVESK SVSRNPEVPF ESSAYRISAS ARGKELRLIL SPLPGAQPQQ EPLALVFRFG
MSGSFQLVPR EELPRHAHLR FYTAPPGPRL ALCFVDIRRF GRWDLGGKWQ PGRGPCVLQE
YQQFRENVLRLADKAFDRP 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 drugs, 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.

To place an order, please [Click HERE](#).