
Product Data Sheet

Product Name: NEIL1 Human
 Cat. No.: GP21996
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MPEGPELHLA SQFVNEACRA LVFGGCVEKS SVSRNPEVPF ESSAYRISAS ARGKELRLIL SPLPGAQPOQ EPLALVFRFG MSGSFQLVPR EELPRHAHLR FYTAPPGPRL ALCFVDIRRF GRWDLGGKWQ PGRGPCVLQE YQQFRENVLRL NLADKAFDRP ICEALLDQRF FNGIGNYLRA EILYRLKIPP FEKARSVLEA LQQHRPSEL TLSQKIRTKL QNPDLLELCH SVPKEVVQLG GKGYGSESGE EDFAAFRAWL RCYGMPGMSS LQDRHGRTIW FQGDPGPLAP KGRKSRKKKS KATQLSPEDR VEDALPPSKA PSRTRRAKRD LPKRTATQRP EGTSLQQDPE APTVPKKGRR KGRQAASGHC RPRKVKADIP SLEPEGTSAS.		
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.		

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.

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%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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.

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