

Recombinant human NEIL1 protein

Catalog Number: ATGP1347

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-390aa

UniProt No.

Q96FI4

NCBI Accession No.

NP_078884.2

Alternative Names

Endonuclease 8-like 1, FLJ22402, FPG1, hFPG1, NEI1

PRODUCT SPECIFICATION

Molecular Weight

45.8 kDa (410aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT, 0.1mM PMSF

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

NEIL1 belongs to 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. Recombinant human NEIL1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MPEGPELHLA SQFVNEACRA LVFGGCVEKS SVSRNPEVPF ESSAYRISAS ARGKELRLIL

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SPLPGAQPQQ EPLALVFRFG MSGSFQLVPR EELPRHAHLR FYTAPPGPRL ALCFVDIRRF GRWDLGGKWQ PGRGPCVLQE
YQQFRENVLRL NLADKAFDRP ICEALLDQRF FNGIGNYLRA EILYRLKIPP FEKARSVLEA LQQHRPSPEL TLSQKIRTKL
QNPDLLELCH SVPKEVVQLG GKGYSSESSE EDFAAFRAWL RCYGMPGMSS LQDRHGRTIW FQGDGPGLAP KGRKSRKKKS
KATQLSPEDR VEDALPPSKA PSRTRRAKRD LPKRTATQRP EGTSLQQDPE APTVPKKGRR KGRQAASGHC RPRKVKADIP
SLEPEGTSAS

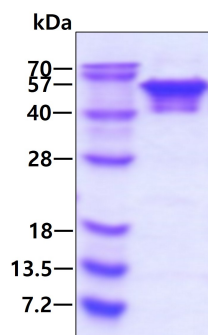
General References

Hazra T.K. et al. (2002) J. Biol.Chem. 277: 30417-30420.

Dou H. et al. (2003) J. Biol.Chem. 278: 49679-49684.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.