

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 SGLVPRGSH> 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 RCYGMPPGMSS LQDRHGRTIW FQDGPGLAP KGRKSRKKKS
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SLEPEGTSAS

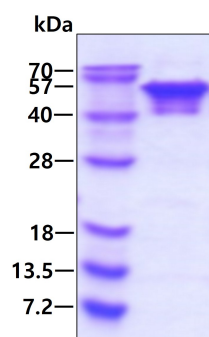
General References

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.