

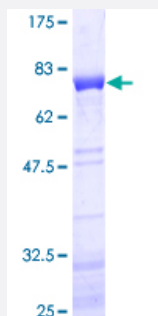
Full-Length

NEIL1 (Human) Recombinant Protein (P01)

Catalog # H00079661-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human NEIL1 full-length ORF (AAH10876.1, 1 a.a. - 390 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MPEGPELHLASQFVNEACRALVFGGCVEKSSVSRNPEVPFESSAYRISASARGKELRLILSPLPG
AQPQQEPLALVFRFGMSGFQLVPREELPRHAHLRFYTAPPGPRLALCFVDIRRFGRWDLGGK
WQPGRGPCVLQEYQQFRENVLRLNLADKAFDRPICEALLDQRRFFNGIGNYLRAEILYRLKIPFEKA
RSVLEALQQHRPSPELTLSQKIRTKLQNPDLLELCHSVPKKEVVQLGGRGYGSESGEEDFAAFRA
WLRCYGMPPGMSSLQDRHGRTIWFQGDGPLAPKGRKSRKKKSKATQLSPEDRVEDALPPSKA
PSRTRRAKRDLPKRTATQRPEGTSLQQDPEAPTVPKKGRRKGRQAASGHCRPRKVKADIPSLEP
EGTSAS

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

70.1

Interspecies Antigen Sequence

Mouse (79); Rat (78)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — NEIL1

Entrez GeneID	79661
GeneBank Accession#	BC010876.1
Protein Accession#	AAH10876.1
Gene Name	NEIL1
Gene Alias	FLJ22402, FPG1, NEI1, hFPG1
Gene Description	nei endonuclease VIII-like 1 (E. coli)
Omim ID	608844
Gene Ontology	Hyperlink
Gene Summary	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 (Bandaru et al., 2002 [PubMed 12509226]).[supplied by OMIM]
Other Designations	endonuclease VIII nei endonuclease VIII-like 1

Pathway

- [Base excision repair](#)

Disease

- [Adenomatous Polyposis Coli](#)
- [Bile Duct Neoplasms](#)
- [Carcinoma](#)
- [Cholangiocarcinoma](#)
- [Cholangitis](#)
- [Colon cancer](#)
- [Disease Progression](#)
- [DNA Damage](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Mouth Neoplasms](#)
- [Multiple Sclerosis](#)
- [Oropharyngeal Neoplasms](#)