

NEIL1, 1-390aa , Human, His tag E.coli

Cat.NO.: TP03139

3th Edition

Synonyms:Endonuclease 8-like 1, FLJ22402, FPG1, hFPG1, NEI1.

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.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl,1mM DTT, 0.1mM PMSF

Molecular Weight:45.8 kDa (410aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMPEGPELHLASQFVNEACRALVFGGCVEKSSVSRNPEVPFESSAYRISASARGK
ELRLILSPLPGAQPQQEPLALVFRFGMSGSFQLVPREELPRHAHLRFYTAPPGPRLALCFVDIRRFGRWDLGGKWQ
PGRGPCVLQEYQQFRENVLRLNADKAFDRPICEALLDQRFFNGIGNYLRAEILYRLKIPPFKARSVLEALQQHRPS
PELTLKQKIRTKLQNPDLLELCHSVPKEVVQLGGKGYGSESGEEDFAAFRAWLRCYGMPGMSSLQDRHGRTIWFQ
GDPGPLAPKGRKSRKKKSKATQLSPEDRVEDALPPSKAPSRTRAKRDLPKRTATQRPEGTSLQQDPEAPTVPKK
GRRKGRQAASGHCRPRKVKADIPSLEPEGTSAS

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.