





Recombinant Human Endonuclease 8-like 1 (NEIL1)

Product Code	CSB-EP846619HU			
Delevenee				
Relevance	Involved in base excision repair of DNA damaged by oxidation or by mutagenic agents. Acts as DNA glycosylase that recognizes and roves damaged bases. Has a preference for oxidized pyrimidines, such as thymine glycol, formamidopyrimidine (Fapy) and 5-hydroxyuracil. Has marginal activity towards 8-oxoguanine. Has AP (apurinic/apyrimidinic) lyase activity and introduces nicks in the DNA strand. Cleaves the DNA backbone by beta-delta elimination to generate a single-strand break at the site of the roved base with both 3'- and 5'-phosphates. Has DNA glycosylase/lyase activity towards mismatched uracil and thymine, in particular in U:C and T:C mismatches. Specifically binds 5-hydroxymethylcytosine (5hmC), suggesting that it acts as a specific reader of 5hmC.			
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.			
Uniprot No.	Q96FI4			
Alias	DNA glycosylase/AP lyase Neil1DNA-(apurinic or apyrimidinic site) lyase Neil1Endonuclease VIII-like 1FPG1Nei homolog 1;NEH1Nei-like protein 1			
Product Type	Recombinant Protein			
Immunogen Species	Homo sapiens (Human)			
Purity	Greater than 90% as determined by SDS-PAGE.			
Sequence	PEGPELHLASQFVNEACRALVFGGCVEKSSVSRNPEVPFESSAYRISASARGI ELRLILSPLPGAQPQQEPLALVFRFGMSGSFQLVPREELPRHAHLRFYTAPPG PRLALCFVDIRRFGRWDLGGKWQPGRGPCVLQEYQQFRENVLRNLADKAFD RPICEALLDQRFFNGIGNYLRAEILYRLKIPPFEKARSVLEALQQHRPSPELTLS QKIRTKLQNPDLLELCHSVPKEVVQLGGKGYGSESGEEDFAAFRAWLRCYGN PGMSSLQDRHGRTIWFQGDPGPLAPKGRKSRKKKSKATQLSPEDRVEDALPI SKAPSRTRRAKRDLPKRTATQRPEGTSLQQDPEAPTVPKKGRRKGRQAASG HCRPRKVKADIPSLEPEGTSAS			
Lead Time	Delivery time may differ from different purchasing way or location, please kindly consult your local distributors for specific delivery time.			
Research Area	Epigenetics and Nuclear Signaling			
Source	E.coli			
Gene Names	NEIL1			
Expression Region	2-390aa			
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at			



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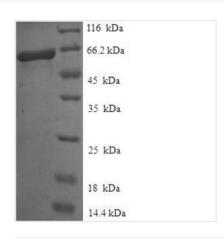


4°C	for	up	to	one	week.
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Mol. Weight 59.6kDa

Protein Description Full Length of Mature Protein

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.