

Recombinant human Endonuclease 8-like 1

Catalog No: #AP71457



Package Size: #AP71457-1 20ug #AP71457-2 100ug #AP71457-3 1mg

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Recombinant human Endonuclease 8-like 1
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-390aaSequence Info:Full Length
Other Names	DNA glycosylase,AP lyase Neil1DNA-(apurinic or apyrimidinic site) lyase Neil1Endonuclease VIII-like 1FPG1Nei homolog 1 ;NEH1Nei-like protein 1
Accession No.	Q96FI4
Uniprot	Q96FI4
GeneID	79661;
Calculated MW	59.6 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	PEGPELHLASQFVNEACRALVFGGCVKSSVSRNPEVPFESSAYRISASARGKELRLILSPLPGAQPQQEPLA LVFRFGMSGFQLVPREELPRHAHLRFYTAPPGPRLALCFVDIRRFGRWDLGGKWQPGRGPCVLQEYQQFR ENVLRNLADKAFDRPICEALLDQRRFNGIGNYLRAEILYRLKIPPFKARSVLEALQQHRPSPELTLKIRTKLQ NPDLLELCHSVPKEVVQLGGKGYGSESGEEDFAAFRAWLRCYGMPPGMSSLQDRHGRTIWFQGDGPGPLAPK GRKSRKKKSKATQLSPEDRVEDALPPSKAPSRTRRAKRDLPKRTATQRPEGTSLQQDPEAPTVPKKGRRKG RQAASGHCRPRKVKADIPSLEPEGTSAS
Formulation	Tris-based buffer50% glycerol
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.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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.

References

NIEHS SNPs programAnalysis of the DNA sequence and duplication history of human chromosome 15.Zody M.C., Garber M., Sharpe T., Young S.K., Rowen L., O'Neill K., Whittaker C.A., Kamal M., Chang J.L., Cuomo C.A., Dewar K., FitzGerald M.G., Kodira C.D., Madan A., Qin S., Yang X., Abbasi N., Abouelleil A. , Arachchi H.M., Baradarani L., Birditt B., Bloom S., Bloom T., Borowsky M.L., Burke J., Butler J., Cook A., DeArellano K., DeCaprio

D., Dorris L. III, Dors M., Eichler E.E., Engels R., Fahey J., Fleetwood P., Friedman C., Gearin G., Hall J.L., Hensley G., Johnson E., Jones C., Kamat A., Kaur A., Locke D.P., Madan A., Munson G., Jaffe D.B., Lui A., Macdonald P., Mauceli E., Naylor J.W., Nesbitt R., Nicol R., O'Leary S.B., Ratcliffe A., Rounsley S., She X., Sneddon K.M.B., Stewart S., Sougnez C., Stone S.M., Topham K., Vincent D., Wang S., Zimmer A.R., Birren B.W., Hood L., Lander E.S., Nusbaum C. Nature 440:671-675(2006) Research Topic: Epigenetics and Nuclear Signaling

Note: This product is for in vitro research use only