

Recombinant Human FEN1 Protein, His-tagged

Cat. No. FEN1-013H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human FEN1 protein (2-380) with a C-terminal His-tag was expressed in E.coli
Species	Human
Source	E.coli
ProteinLength	2-380
Description	The protein encoded by this gene removes 5' overhanging flaps in DNA repair and processes the 5' ends of Okazaki fragments in lagging strand DNA synthesis. Direct physical interaction between this protein and AP endonuclease 1 during long-patch base excision repair provides coordinated loading of the proteins onto the substrate, thus passing the substrate from one enzyme to another. The protein is a member of the XPG/RAD2 endonuclease family and is one of ten proteins essential for cell-free DNA replication. DNA secondary structure can inhibit flap processing at certain trinucleotide repeats in a length-dependent manner by concealing the 5' end of the flap that is necessary for both binding and cleavage by the protein encoded by this gene. Therefore, secondary structure can deter the protective function of this protein, leading to site-specific trinucleotide expansions.
Molecular Mass	43.8 kDa
Purity	≥85% estimated by SDS-PAGE

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Stability	≥ 1 year
Storage	-80 centigrade
Storage Buffer	50 mM Tris, pH 8.0, containing 1 mM DTT and 10% glycerol
Shipping	Dry ice in continental US, may vary elsewhere.

GENE INFORMATION

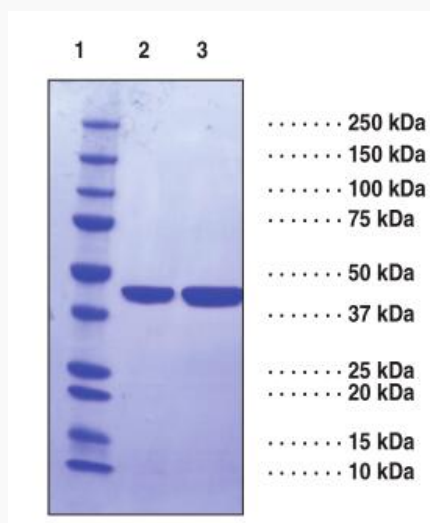
Gene Name	FEN1 flap structure-specific endonuclease 1 [Homo sapiens (human)]
Official Symbol	FEN1
Synonyms	FEN1; flap structure-specific endonuclease 1; MF1; RAD2; FEN-1; lap endonuclease 1; DNase IV; maturation factor-1; EC 3.1.26.4
Gene ID	2237
mRNA Refseq	NM_004111
Protein Refseq	NP_004102
MIM	600393
UniProt ID	P39748

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SDS-PAGE Analysis of FEN1

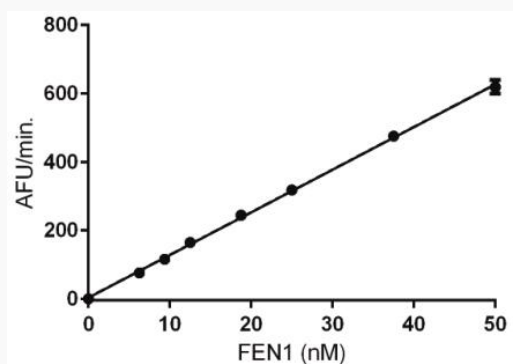


Lane 1: MW Markers

Lane 2: FEN1 (2 µg)

Lane 3: FEN1 (4 µg)

FEN1 Enzyme Titration



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