

Recombinant Full Length Human FEN1 Protein, GST-tagged

Cat. No. FEN1-4782HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human FEN1 full-length ORF (AAH00323, 1 a.a. - 380 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	380 amino acids
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. [provided by RefSeq]
Molecular Mass	67.43 kDa
AA Sequence	MGIQGLAKLIADVAPSAIRENDIKSYFGRKVAIDASMSIYQFLIAVRQGGDVLQNEEGE TTSHLMGMFYRTIRMMENGIKPVYVFDGKPPQLKSGELAKRSERRAEAEKQLQQAQ

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AAGAEQEVEKFTKRLVKVTKQHNDCKHLLSLMGIPYLDAPSEAEASCAALVKAGKV
YAAATEDMDCLTFGSPVLMRHLTASEAKKLP IQEFHLSRILQELGLNQE QFVDLCILL
GSDYCESIRGIGPKRAVDLIQKHKSIEEIVRRLDPNKYPVPENWLHKEAHQLFLEPEV
LDPESVELKWSEPNEEELIKFMCGEKQFSEERIRSGVKRLSKSRQGSTQGRLLDDFF
KVTGSLSSAKRKEPEPKGSTKKKAKTGAAGKFKRGK

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

FEN1 flap structure-specific endonuclease 1 [Homo sapiens]

Official Symbol

FEN1

Synonyms

FEN1; flap structure-specific endonuclease 1; RAD2; flap endonuclease 1; DNase IV;
FEN 1; maturation factor 1; MF1; maturation factor-1; FEN-1;

Gene ID

2237

mRNA Refseq

NM_004111

Protein Refseq

NP_004102

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MIM	600393
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UniProt ID	P39748
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