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## 32-7122: Recombinant Human Flap Endonuclease 1/FEN-1

**Gene :** FEN1
**Gene ID :** 2237
**Uniprot ID :** P39748

## Description

Source: E.coli.
MW :42.59kD.
Recombinant Human Flap Endonuclease 1 is produced by our E.coli expression system and the target gene encoding Met1-Lys380 is expressed. Flap Endonuclease 1 (FEN1) is a member of the XPG/RAD2 endonuclease family. During DNA replication, FEN1 cleaves the 5'-overhanging flap structure and processes the 5' ends of Okazaki fragments for synthesis. FEN1 also exhibits RNase H activity by possessing 5'-3' exonuclease activity on gapped double-stranded or nicked DNA, FEN1 is involved in the long patch base excision repair (LP-BER) pathway, it can cleave within the apurinic/apyrimidinic (AP) site-terminated flap. FEN1 can prevent flaps from equilibrating into structures that lead to duplications and deletions. FEN1 is also involved in replication and repair of rDNA and in repairing mitochondrial DNA.

## Product Info

**Amount :** 10 µg / 50 µg
**Content :** Supplied as a 0.2 µm filtered solution of 50 mM Tris, 50mM NaCl, 1mM DDT, 10% Glycerol, pH 8.0.
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
**Amino Acid :** MGIQGLAKLIADVAPSAIRENDIKSYFGRKVAIDASMSIYQFLIAVRQGGDVLQNEEGETTSHLMGMFYRTIRMM ENGIKPVYVFDGKPPQLKSGELAKRSERRAEAEKQLQQAQAAGAEQEVEKFTKRLVKVTKQHNDECKHLLSLM GIPYLDAPSEAEASCAALVKAGKVYAAATEDMDCLTFGSPVLMRHLTASEAKKLPIQEFHLSRILQELGLNQEQF VDLCILLGSDYCESIRGIGPKRAVDLIQKHKSIEEIVRRLDPNKYPVPENWLHKEAHQLFLEPEVLDPESVELKWS EPNEEELIKFMCGEKQFSEERIRSGVKRLSKSRQGSTQGRLDDFFKVTGSLSSAKRKEPEPKGSTKKKAKTGAA GKFKRGK

***For Research Use Only. Not for use in diagnostic/therapeutics procedures.***