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## Datasheet for ABIN7318496

**FEN1 Protein**

## Overview

Quantity:	50 µg
Target:	FEN1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

## Product Details

Purpose:	Recombinant Human Flap Endonuclease 1/FEN1 Protein
Sequence:	Met 1-Lys380
Characteristics:	Recombinant Human Flap Endonuclease 1 is produced by our E.coli expression system and the target gene encoding Met1-Lys380 is expressed.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

## Target Details

Target:	FEN1
Alternative Name:	Flap Endonuclease 1/FEN1 ( <a href="#">FEN1 Products</a> )
Background:	Background: 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

## Target Details

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.

Synonym: Flap Endonuclease 1, FEN-1, DNase IV, Flap Structure-Specific Endonuclease 1, Maturation Factor 1, MF1, hFEN-1, FEN1, RAD2

Molecular Weight: 42.6 kDa

UniProt: [P39748](#)

Pathways: [Telomere Maintenance](#), [DNA Damage Repair](#), [DNA Replication](#), [Synthesis of DNA](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Frozen, Liquid

Buffer: Supplied as a 0.2 µm filtered solution of 50 mM Tris, 50 mM NaCl, 1 mM DDT, 10 % Glycerol, pH 8.0.

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.