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Datasheet for ABIN1096675 **FEN1 Protein (AA 1-380)**

Overview

Quantity:	50 µg
Target:	FEN1
Protein Characteristics:	AA 1-380
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human Flap Endonuclease 1/FEN-1
Sequence:	MGIQGLAKLI ADVAPSAIRE NDIKSYFGRK VAIDASMSIY QFLIAVRQGG DVLQNEEGET TSHLMGMFYR TIRMMENGIK PVYVFDGKPP QLKSGELAKR SERRAEAEKQ LQQAQAAGAE QEVEKFTKRL VKVTQKHND CKHLLSLMGI PYLDAPSEAE ASCAALVKAG KVYAAATEDM DCLTFGSPVL MRHLTASEAK KLPIQEFHLS RILQELGLNQ EQVDLCILL GSDYCESIRG IGPKRAVDLI QKHKSIEEIV RRLDPNKYPV PENWLHKEAH QLFLEPEVLD PESVELKWSE PNEELIKFM CGEKQFSEER IRSGVKRLSK SRQGSTQGRL DDFKVTGSL SSAKRKEPEP KGSTKKKAKT GAAGKFKRGK
Characteristics:	Recombinant Human Flap Endonuclease 1/FEN-1 is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Lys380) of Human FEN-1.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	FEN1
Alternative Name:	flap-endonuclease-1 (FEN1 Products)
Background:	<p>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/aprimidinic (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.</p> <p>Alternative Names: Flap Endonuclease 1, FEN-1, DNase IV, Flap Structure-Specific Endonuclease 1, Maturation Factor 1, MF1, hFEN-1, FEN1, RAD2</p>
Molecular Weight:	42.59 kDa
UniProt:	P39748
Pathways:	Telomere Maintenance , DNA Damage Repair , DNA Replication , Synthesis of DNA

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of 50 mM Tris, 50 mM NaCl, 1 mM DDT, 10 % Glycerol, pH 8.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	<p>Store at < -20°C, stable for 6 months after receipt.</p> <p>Please minimize freeze-thaw cycles.</p>
Expiry Date:	6 months