

FEN1 recombinant protein

FEN1, 1-380aa, Human, E Coli

CATALOG # AAA48575	HOST E Coli	APPLICATIONS SDS-Page
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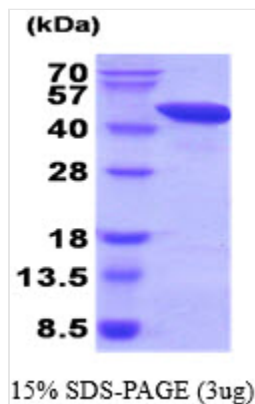
PRODUCT SYNONYMS

FEN1; 1-380aa; Human; E Coli; Flap structure-specific endonuclease 1; FEN-1; MF1; RAD2; Flap structure-specific endonuclease 1 DNase IV; Flap endonuclease 1; Flap structure specific endonuclease 1; hFEN1; Maturation factor 1; ; FEN1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 1mM DTT 10% glycerol
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGIQGLAKLI ADVAPSAIRE NDIKSYFGRK VAIDASMSIY QFLIAVRQGG DVLQNEEGET TSHLMGMFYR TIRMENGIK PVYVFDGKPP QLKSGELAKR SERRAEAEKQ LQQAQAAGAE QEVEKFTKRL VKVTKQHND CKHLLSLMGI PYLDAPSEAE ASCAALVKAG KVYAAATEDM DCLTFGSPVL MRHLTASEAK KLPIQEFHLS RILQELGLNQ EQFV DLCILL GSDYCESIRG IGPKRAVDLI QKHKSIEEIV RRLDPNKYPV PENWLHKEAH QLFLEPEVLD PESVELKWSE PNEEELIKFM CGEKQFSEER IRSGVKRLSK SRQGSTQGRL DDFKVTGSL SSAKRKEPEP KGSTKKKAKT GAAGKFKRGK
Sequence Length	380
Applicable Applications for FEN1 recombinant protein	SDS-PAGE
Tag	Non-Tagged
Preparation and Storage	Can be stored at +2°C to +8°C for one week For long term storage, aliquot and store at -20°C or -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

Related Product Information for FEN1 recombinant protein	FEN-1, also known as Flap structure-specific endonuclease 1, removes 5' overhanging flaps in DNA repair and processes the 5' ends of Okazaki fragments in lagging strand DNA synthesis. The protein is a member of the XPG/RAD2 endonuclease family and is one of ten proteins essential for cell-free DNA replication. FEN-1 is highly homologous to yeast Rad2. The C-terminal region of FEN-1 may bind to PCNA, thus allowing FEN-1 to function as an exonuclease in DNA replication. Recombinant human FEN-1 protein was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for FEN1 recombinant protein	Enzymes & Proteases
References	Hakoyama T., et al. (2009) Nature. 462 (7272):514-7. ; Lal A., et al. (2009) Mol Cell. 35 (5):610-25.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758356
NCBI GeneID	2237
NCBI Accession #	NP_004102
NCBI GenBank Nucleotide #	NM_004111.5
UniProt Accession #	P39748
Molecular Weight	42.5 kDa (380aa), confirmed by MALDI-TOF.
NCBI Official Full Name	flap endonuclease 1
NCBI Official Synonym Full Names	flap structure-specific endonuclease 1
NCBI Official Symbol	FEN1
NCBI Official Synonym Symbols	MF1; RAD2; FEN-1
NCBI Protein Information	flap endonuclease 1
UniProt Protein Name	Flap endonuclease 1
UniProt Gene Name	FEN1
UniProt Synonym Gene Names	MF1; hFEN-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.