

Recombinant human FEN1 protein

Catalog Number: ATGP0442

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-380aa

UniProt No.

P39748

NCBI Accession No.

NP_004102.1

Alternative Names

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,

PRODUCT SPECIFICATION

Molecular Weight

42.5 kDa (380aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT 10% glycerol

Purity

> 90% by SDS-PAGE

Tag

Non-Tagged

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

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

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using conventional chromatography techniques.

Amino acid Sequence

MGIQGLAKLI ADVAPSAIRE NDIKSYFGRK VAIDASMSIY QFLIAVRQGG DVLQNEEGET TSHLMGMFYR TIRMMENGIK
PVYVFDGKPP QLKSGELAKR SERRAEAEKQ LQQAQAAGAE QEVEKFTKRL VKVTKQHND ECKHLLSLMGI PYLDAPSEAE
ASCAALVKAG KVYAAATEDM DCLTFGSPVL MRHLTASEAK KLPIQEFHLS RILQELGLNQ EQFVDLCILL GSDYCESIRG
IGPKRAVDLI QKHKSIEEIV RRLDPNKYPV PENWLHKEAH QLFLEPEVLD PESVELKWSE PNEEELIKFM CGEKQFSEER
IRSGVKRLSK SRQGSTQGR LDDFFKVTGSL SSAKRKEPEP KGSTKKKAKT GAAGKFKRGK

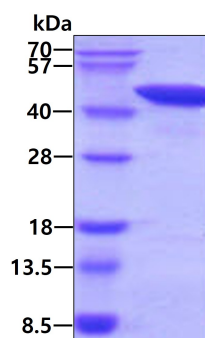
General References

Hakoyama T., et al. (2009) Nature. 462(7272):514-7.

Lal A., et al. (2009) Mol Cell. 35(5):610-25.

DATA

SDS-PAGE



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