Flap Endonuclease 1-A (FEN-1a) Oryza Sativa Subsp. Japonica Recombinant Protein

PRODUCT OVERVIEW

Product Name	Flap endonuclease 1-A (FEN-1a), Recombinant Protein
Full Product Name	Recombinant Oryza sativa subsp. japonica Flap endonuclease 1-A (FEN-1a)
Product Gene Name	FEN-1a recombinant protein
Product Synonym Gene Name	FEN-1a
Sequence	MGIKGLTKLL ADNAPKAMKE QKFESYFGRR IAVDASMSIY QFLIVVGRTG METLTNEAGE VTSHLQGMFN RTIRLLEAGI KPVYVFDGKP PDLKKQELAK RYSKREDATK ELTEAVEEGD KDAIEKFSKR TVKVTKQHNE ECKRLLRLMG VPVVEAPCEA EAECAALCIN DMVYAVASED MDSLTFGAPR FLRHLMDPSS KKIPVMEFEV AKVLEELELT MDQFIDLCIL SGCDYCDSIK GIGGQTALKL IRQHGSIESI LENINKDRYQ IPEDWPYQEA RRLFKEPNVT LDIPELKWNA PDEEGLVEFL VKENGFNQDR VTKAIEKIKF AKNKSSQGRL ESFFKPVVST SVPLKRKDTS EKPTKAVANK KTKGAGGKKK
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	42,792 Da
Sequence Positions	1-380, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9SXQ6
Species	Oryza sativa subsp. japonica (Rice)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for FEN-1a recombinant protein	MBS1354978 is a recombinant protein targeting FEN-1a. Also known as Recombinant Oryza sativa subsp. japonica Flap endonuclease 1-A (FEN-1a). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of FEN-1a recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FEN-1a. It may not necessarily be applicable to this product.

NCBI GI #	1002269954
NCBI GeneID	4339464
NCBI Accession #	XP_015639321.1
UniProt Primary Accession #	Q9SXQ6

UniProt Secondary Accession #	Q0DGD0; Q53WJ9; A0A0P0WQE5
UniProt Related Accession #	Q9SXQ6
GenBank Nucleotide #	XM_015783835.1
NCBI Official Full Name	flap endonuclease 1-A
NCBI Official Symbol	LOC4339464
NCBI Official Synonym Symbols	FEN-1; FEN-1a; FEN-1-A; OsFEN-1a; OsJ_19381
UniProt Protein Name	Flap endonuclease 1-A
UniProt Synonym Protein Names	Flap structure-specific endonuclease 1-A
UniProt Gene Name	FEN1A
UniProt Synonym Gene Names	FEN-1-A
NCBI Protein Information	flap endonuclease 1-A
UniProt Comments for FEN-1a	Structure-specific nuclease with 5'-flap endonuclease and 5'-3' exonuclease activities involved in DNA replication and repair. During DNA replication, cleaves the 5'-overhanging flap structure that is generated by displacement synthesis when DNA polymerase encounters the 5'-end of a downstream Okazaki fragment. It enters the flap from the 5'-end and then tracks to cleave the flap base, leaving a nick for ligation. Also involved in the long patch base excision repair (LP-BER) pathway, by cleaving within the apurinic/apyrimidinic (AP) site-terminated flap. Acts as a genome stabilization factor that prevents flaps from equilibrating into structurs that lead to duplications and deletions. Also possesses 5'-3' exonuclease activity on nicked or gapped double-stranded DNA, and exhibits RNase H activity. Also involved in replication and repair of rDNA and in repairing mitochondrial DNA (). May be required for cell proliferation.
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