Flap Endonuclease 1 (fen) Halobacterium Salinarum Recombinant Protein

PRODUCT OVERVIEW

Product Name	Flap endonuclease 1 (fen), Recombinant Protein
Full Product Name	Recombinant Halobacterium salinarum Flap endonuclease 1 (fen)
Product Gene Name	fen recombinant protein
Product Synonym Gene Name	fen
Sequence	MGNADLRQLA AIEETPFADL EGSVVAVDAH NWLYKYLTTT VQWTGADVYT TSDGTEVANL VGAVQGLPKF FEHGLTPVFV WDGGVTELKD DEIADRREQR ERYEEQLDDA REAGDAAEAA RLDARTQRLT PTIHETTREL FDLLDIPQVE APAEGEAQAA YMTRTDDAVD YAGSDDYDCL LLGSPVTLRQ LTSSGHPELM DFDATLAEHD LTWEQLVDVG ILCGTDFNPG IDGFGPTTAL DAIGEHGDLW DVLAAEGEHV AHGDRIRELF LNPDVTDDYV IDPDVSPAID AARAFVTDEW EVDADAVARG FERIDAAAAQ TGLDRWT
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	35,814 Da
Sequence Positions	1-327, 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 Q9HQ27
Species	Halobacterium salinarum (strain 700922 / JCM 11081 / NRC-1) (Halobacterium halobium)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for fen recombinant protein	MBS1336563 is a recombinant protein targeting fen. Also known as Recombinant Halobacterium salinarum Flap endonuclease 1 (fen). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of fen 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. It may not necessarily be applicable to this product.

NCBI GI #	499205446
NCBI Accession #	WP_010902986.1
UniProt Primary Accession #	Q9HQ27
GenBank Nucleotide #	WP_010902986.1
NCBI Official Full Name	endonuclease

UniProt Protein Name	Flap endonuclease 1
UniProt Synonym Protein Names	Flap structure-specific endonuclease 1
Protein Family	Flap endonuclease
UniProt Gene Name	fen
UniProt Synonym Gene Names	FEN-1
UniProt Comments for fen	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. Binds the unpaired 3'-DNA end and kinks the DNA to facilitate 5' cleavage specificity. Cleaves one nucleotide into the double-stranded DNA from the junction in flap DNA, leaving a nick for ligation. Also involved in the base excision repair (BER) pathway. Acts as a genome stabilization factor that prevents flaps from equilibrating into structures that lead to duplications and deletions. Also possesses 5'-3' exonuclease activity on nicked or gapped double-stranded DNA ().
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