Endonuclease III (nth) Thermotoga Maritima Recombinant Protein

PRODUCT OVERVIEW

Product Name	Endonuclease III (nth), Recombinant Protein
Full Product Name	Recombinant Thermotoga maritima Endonuclease III (nth)
Product Gene Name	nth recombinant protein
Product Synonym Gene Name	nth
Sequence	MIEELAREIV KRFPRNHKET DPFRVLISTV LSQRTRDENT EKASKKLFEV YRTPQELAKA KPEDLYDLIK ESGMYRQKAE RIVEISRILV EKYGGRVPDS LEELLKLPGV GRKTANIVLW VGFKKPALAV DTHVHRISNR LGWVKTRTPE ETEEALKKLL PEDLWGPING SMVEFGRRIC KPQNPLCEEC FLKNHCEFYR RRGKGEVRNR TER
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	24,928 Da
Sequence Positions	1-213, 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 Q9WYK0
Species	Thermotoga maritima (strain 43589 / MSB8 / DSM 3109 / JCM 10099)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for nth recombinant protein	MBS1355427 is a recombinant protein targeting nth. Also known as Recombinant Thermotoga maritima Endonuclease III (nth). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of nth 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 nth. It may not necessarily be applicable to this product.

NCBI GI #	15643134
NCBI GeneID	897325
NCBI Accession #	NP_228177.1
UniProt Primary Accession #	Q9WYK0
UniProt Related Accession #	Q9WYK0
GenBank Nucleotide #	NC_000853.1

NCBI Official Full Name	endonuclease III
NCBI Official Symbol	TM0366
UniProt Protein Name	Endonuclease III
UniProt Synonym Protein Names	DNA-(apurinic or apyrimidinic site) lyase
Protein Family	Endonuclease
UniProt Gene Name	nth
NCBI Protein Information	endonuclease III
UniProt Comments for nth	DNA repair enzyme that has both DNA N-glycosylase activity and AP-lyase activity. The DNA N-glycosylase activity releases various damaged pyrimidines from DNA by cleaving the N-glycosidic bond, leaving an AP (apurinic/apyrimidinic) site. The AP-lyase activity cleaves the phosphodiester bond 3' to the AP site by a beta-elimination, leaving a 3'-terminal unsaturated sugar and a product with a terminal 5'-phosphate.
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