Endonuclease 8 (nei) Shigella Sonnei Recombinant Protein

PRODUCT OVERVIEW

Product Name	Endonuclease 8 (nei), Recombinant Protein
Full Product Name	Recombinant Shigella sonnei Endonuclease 8 (nei)
Product Gene Name	nei recombinant protein
Product Synonym Gene Name	nei
Sequence	PEGPEIRRAA DNLEAAIKGK PLTDVWFAFP QLKTYQSQLI GQHVTHVETR GKALLTHFSN DLTLYSHNQL YGVWRVVDTG EEPQTTRVLR VKLQTADKTI LLYSASDIEM LRPEQLTTHP FLQRVGPDVL DPNLTPEVVK ERLLSPRFRN RQFAGLLLDQ AFLAGLGNYL RVEILWQVGL TGNHKAKDLN AAQLDALAHA LLDIPRFSYA TRGLVDENKH HGALFRFKVF HRDGEPCERC GSIIEKTTLS SRPFYWCPGC QH
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	29,875 Da
Sequence Positions	2-263, Full length
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 Q3Z489
Species	Shigella sonnei (strain Ss046)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for nei recombinant protein	MBS1403106 is a recombinant protein targeting nei. Also known as Recombinant Shigella sonnei Endonuclease 8 (nei). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of nei 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 nei. It may not necessarily be applicable to this product.

NCBI GI #	447036764
NCBI Accession #	WP_001114020.1
UniProt Primary Accession #	Q3Z489
GenBank Nucleotide #	WP_001114020.1
NCBI Official Full Name	endonuclease VIII

UniProt Protein Name	Endonuclease 8
UniProt Synonym Protein Names	DNA glycosylase/AP lyase Nei
Protein Family	Endonuclease
UniProt Gene Name	nei
UniProt Comments for nei	Involved in base excision repair of DNA damaged by oxidation or by mutagenic agents. Acts as DNA glycosylase that recognizes and removes damaged bases. Has a preference for oxidized pyrimidines, such as thymine glycol, 5,6-dihydrouracil and 5,6-dihydrothymine. Has AP (apurinic/apyrimidinic) lyase activity and introduces nicks in the DNA strand. Cleaves the DNA backbone by beta-delta elimination to generate a single-strand break at the site of the removed base with both 3'- and 5'-phosphates.
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