DNA Topoisomerase 3 (topB) Bacillus Cereus Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNA topoisomerase 3 (topB), Recombinant Protein
Full Product Name	Recombinant Bacillus cereus DNA topoisomerase 3 (topB), partial
Product Gene Name	topB recombinant protein
Product Synonym Gene Name	topB
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	82,840 Da
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 Q63GK5
Species	Bacillus cereus (strain ZK / E33L)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for topB recombinant protein	MBS1338397 is a recombinant protein targeting topB. Also known as Recombinant Bacillus cereus DNA topoisomerase 3 (topB), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of topB 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 topB. It may not necessarily be applicable to this product.

NCBI GI #	447062952
NCBI Accession #	WP_001140208.1
UniProt Primary Accession #	Q63GK5
GenBank Nucleotide #	WP_001140208.1
NCBI Official Full Name	DNA topoisomerase III
UniProt Protein Name	DNA topoisomerase 3
UniProt Synonym Protein Names	DNA topoisomerase III
Protein Family	DNA topoisomerase
UniProt Gene Name	topB

UniProt Comments for topB	Releases the supercoiling and torsional tension of DNA, which is introduced during the DNA replication and transcription, by transiently cleaving and rejoining one strand of the DNA duplex. Introduces a single-strand break via transesterification at a target site in duplex DNA. The scissile phosphodiester is attacked by the catalytic tyrosine of the enzyme, resulting in the formation of a DNA-(5'-phosphotyrosyl)-enzyme intermediate and the expulsion of a 3'-OH DNA strand. The free DNA strand then undergoes passage around the unbroken strand, thus removing DNA supercoils. Finally, in the religation step, the DNA 3'-OH attacks the covalent intermediate to expel the active-site tyrosine and restore the DNA phosphodiester backbone.
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