DNA Polymerase IV (dinB) Streptococcus Pyogenes Serotype M18 Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNA polymerase IV (dinB), Recombinant Protein
Full Product Name	Recombinant Streptococcus pyogenes serotype M18 DNA polymerase IV (dinB)
Product Gene Name	dinB recombinant protein
Product Synonym Gene Name	dinB
Sequence	MLIFPLINDT SRKIIHIDMD AFFAAVEERD NPALKGKPVV IGKDPRETGG RGVVSTCNYE ARKYGIHSAM SSKEAYERCP KAIFISGNYE KYRTVGDQIR RIFKRYTDLV EPMSIDEAYL DVTDNKLGIK SAVKIAKLIQ HDIWKEVGLT CSAGVSYNKF LAKLASDFEK PHGLTLVLKE DALCFLAKLP IEKFHGVGKK SVEKLHDMGI YTGQDLLAVP EMTLIDHFGR FGFDLYRKAR GISNSPVKSD RIRKSIGSER TYAKLLYQET DIKAEISKNA KRVAALLQDH KKLGKTIVLK VRYADFTTLT KRVTLPELTR NAAQIEQVAG DIFDSLSENP AGIRLLGVTM TNLEDKVADI SLDL
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	40,775 Da
Sequence Positions	1-364, 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 Q8NZI1
Species	Streptococcus pyogenes serotype M18
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dinB recombinant protein	MBS1323546 is a recombinant protein targeting dinB. Also known as Recombinant Streptococcus pyogenes serotype M18 DNA polymerase IV (dinB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of dinB 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 dinB. It may not necessarily be applicable to this product.

NCBI GI #	499327703
NCBI Accession #	WP_011018195.1
UniProt Primary Accession #	Q8NZI1
GenBank Nucleotide #	WP_011018195.1

NCBI Official Full Name	DNA polymerase IV
UniProt Protein Name	DNA polymerase IV
Protein Family	DNA polymerase
UniProt Gene Name	dinB
UniProt Synonym Gene Names	Pol IV
UniProt Comments for dinB	Poorly processive, error-prone DNA polymerase involved in untargeted mutagenesis. Copies undamaged DNA at stalled replication forks, which arise in vivo from mismatched or misaligned primer ends. These misaligned primers can be extended by PolIV. Exhibits no 3'-5' exonuclease (proofreading) activity. May be involved in translesional synthesis, in conjunction with the beta clamp from PolIII.
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