DNA Polymerase IV (dinB) Pseudomonas Aeruginosa Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNA polymerase IV (dinB), Recombinant Protein
Full Product Name	Recombinant Pseudomonas aeruginosa DNA polymerase IV (dinB)
Product Gene Name	dinB recombinant protein
Product Synonym Gene Name	dinB
Sequence	MRKIIHIDCD CFYAALEMRD DPSLRGKALA VGGSPDKRGV VATCSYEARA YGVRSAMAMR TALKLCPDLL VVRPRFDVYR AVSKQIHAIF RDYTDLIEPL SLDEAYLDVS ASPHFAGSAT RIAQDIRRRV AEELHITVSA GVAPNKFLAK IASDWRKPDG LFVITPEQVD GFVAELPVAK LHGVGKVTAE RLARMGIRTC ADLRQGSKLS LVREFGSFGE RLWGLAHGID ERPVEVDSRR QSVSVECTFD RDLPDLAACL EELPTLLEEL DGRLQRLDGS YRPDKPFVKL KFHDFTQTTV EQSGAGRDLE SYRQLLGQAF ARGNRPVRLI GVGVRLLDLQ GAHEQLRLF
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	38,890 Da
Sequence Positions	1-349, 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 Q9I534
Species	Pseudomonas aeruginosa (strain 15692 / PAO1 / 1C / PRS 101 / LMG 12228)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dinB recombinant protein	MBS1338333 is a recombinant protein targeting dinB. Also known as Recombinant Pseudomonas aeruginosa 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 #	15596120
NCBI GeneID	881987
NCBI Accession #	NP_249614.1
UniProt Primary Accession #	Q9I534
UniProt Related Accession #	Q9I534

GenBank Nucleotide #	NC_002516.2
NCBI Official Full Name	DNA polymerase IV
NCBI Official Symbol	dinB
UniProt Protein Name	DNA polymerase IV
Protein Family	DNA polymerase
UniProt Gene Name	dinB
UniProt Synonym Gene Names	Pol IV
NCBI Protein Information	DNA polymerase 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.
Research Articles on dinB	**1.** DinB was critical for the survival of bacteria with impaired base excision repair (BER) functions upon alkylation damage, lacking DNA glycosylases AlkA and/or Tag.
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