DNA Polymerase III Subunit Beta (dnaN) Rickettsia Typhi Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNA polymerase III subunit beta (dnaN), Recombinant Protein
Full Product Name	Recombinant Rickettsia typhi DNA polymerase III subunit beta (dnaN)
Product Gene Name	dnaN recombinant protein
Product Synonym Gene Name	dnaN
Sequence	MLKLIVETKT LVQSLGFARS VVEKRNVIPE YANIKLSAKD GNLELSSTNM DLYLSQKIAV QVLSEGEITV STQTLSDIVR KLPDSELTLT ELDIMKLEIK GQNCQFNLFT LPVSSFPAMD SIKPEVSFKI SCADFAKIIE STKFSISLDE TRYNLNGIYL HIKDKEFFAA STDGHRLSIS WITLEEKIKN FGVILPQKSA EEILKIVKDL KNIHEDIEIL LSSNKIKFIC NENTILLSKL IDGTFPDYSA FIPKSSISKL VINRKIFADS IERIAIITVE KFRAIKLSLS RKTLEISAVG EARGNAKEII TASQDKESFY EYNCDESLVI GFNPQYLEDV LKAVKSNLVE LYFSDISASA PVLIKFPQNP KDIFVIMPVK V
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	42,822 Da
Sequence Positions	1-381, 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 Q68WW0
Species	Rickettsia typhi (strain VR-144 / Wilmington)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dnaN recombinant protein	MBS1405653 is a recombinant protein targeting dnaN. Also known as Recombinant Rickettsia typhi DNA polymerase III subunit beta (dnaN). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of dnaN 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 dnaN. It may not necessarily be applicable to this product.

NCBI GI #	499504226
NCBI Accession #	WP_011190866.1
UniProt Primary Accession #	Q68WW0
GenBank Nucleotide #	WP_011190866.1

NCBI Official Full Name	DNA polymerase III subunit beta
UniProt Protein Name	Beta sliding clamp
UniProt Synonym Protein Names	Beta-clamp processivity factor; DNA polymerase III beta sliding clamp subunit; DNA polymerase III subunit beta
Protein Family	DNA polymerase
UniProt Gene Name	dnaN
UniProt Synonym Gene Names	Beta clamp; Sliding clamp
UniProt Comments for dnaN	Confers DNA tethering and processivity to DNA polymerases and other proteins. Acts as a clamp, forming a ring around DNA (a reaction catalyzed by the clamp-loading complex) which diffuses in an ATP-independent manner freely and bidirectionally along dsDNA. Initially characterized for its ability to contact the catalytic subunit of DNA polymerase III (Pol III), a complex, multichain enzyme responsible for most of the replicative synthesis in bacteria; Pol III exhibits 3'-5' exonuclease proofreading activity. The beta chain is required for initiation of replication as well as for processivity of DNA replication.
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