DNA Polymerase III Subunit Alpha (Dnae), Partial (dnaE) Deinococcus Radiodurans Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNA polymerase III subunit alpha (dnaE), partial, Recombinant Protein
Full Product Name	Recombinant Deinococcus radiodurans DNA polymerase III subunit alpha (dnaE), partial
Product Gene Name	dnaE recombinant protein
Product Synonym Gene Name	dnaE; DR_0507
Product Synonym Names	DNA polymerase III subunit alpha; EC=2.7.7.7
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	149,277 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 Q9RX08
Species	Deinococcus radiodurans (strain 13939 / DSM 20539 / JCM 16871 / LMG 4051 / NBRC 15346 / NCIMB 9279 / R1 / VKM B-1422)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dnaE recombinant protein	MBS1329618 is a recombinant protein targeting dnaE. Also known as Recombinant Deinococcus radiodurans DNA polymerase III subunit alpha (dnaE), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of dnaE 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 dnaE. It may not necessarily be applicable to this product.

NCBI GI #	15805534
NCBI GeneID	1797477
NCBI Accession #	NP_294230.1
UniProt Primary Accession #	Q9RX08
UniProt Related Accession #	Q9RX08
GenBank Nucleotide #	NC_001263.1
NCBI Official Full Name	DNA polymerase III subunit alpha

NCBI Official Symbol	DR_0507
UniProt Protein Name	DNA polymerase III subunit alpha
UniProt Gene Name	dnaE
UniProt Entry Name	DPO3A_DEIRA
NCBI Protein Information	DNA polymerase III subunit alpha
UniProt Comments for dnaE	DNA polymerase III is a complex, multichain enzyme responsible for most of the replicative DNA synthesis in bacteria as well as the bulk of DNA synthesis/repair after ionizing radiation (IR) (PubMed:19303848). The alpha chain is the catalytic subunit (PubMed:19303848). Following severe irradiation (7 kGy of gamma irradiation) genomic DNA is fragmented. DNA is progressively degraded for the first 1.5 hours after IR, in a step promoted by RecA and counterbalanced by DNA Pol I and Pol III, followed by massive DNA synthesis and genome reassembly in the next hour. Optimal priming of DNA synthesis requires both RecA and RadA, Pol III initiates DNA synthesis while both Pol I and Pol III are required for its contination (PubMed:19303848). This DNA polymerase also exhibits 3' to 5' exonuclease activity ().
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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