Ribonuclease P Protein Component (rnpA) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ribonuclease P protein component (rnpA), Recombinant Protein
Full Product Name	Recombinant Lactobacillus delbrueckii subsp. bulgaricus Ribonuclease P protein component (rnpA)
Product Gene Name	rnpA recombinant protein
Product Synonym Gene Name	rnpA
Sequence	MRKSYRIKSE QDFQTVFENG ESVANRAFVI YVLPRKQNKH FRVGISVGKK VGHTAVVRNR LKRYIRAVLT ENRDRIAPDL DFLVIARPYA HDFDWEKTRE NLLHALNLAH VIEEMPNKEE K
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	14,288 Da
Sequence Positions	1-121, 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 Q1G7Z2
Species	Lactobacillus delbrueckii subsp. bulgaricus (strain 11842 / DSM 20081)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for rnpA recombinant protein	MBS1347089 is a recombinant protein targeting rnpA. Also known as Recombinant Lactobacillus delbrueckii subsp. bulgaricus Ribonuclease P protein component (rnpA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of rnpA 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 rnpA. It may not necessarily be applicable to this product.

NCBI GI #	489718028
NCBI Accession #	WP_003622144.1
UniProt Primary Accession #	Q1G7Z2
GenBank Nucleotide #	WP_003622144.1
NCBI Official Full Name	ribonuclease P protein component
UniProt Protein Name	Ribonuclease P protein component

UniProt Synonym Protein Names	Protein C5
Protein Family	Ribonuclease P protein component
UniProt Gene Name	rnpA
UniProt Synonym Gene Names	RNase P protein; RNaseP protein
UniProt Comments for rnpA	RNaseP catalyzes the removal of the 5'-leader sequence from pre-tRNA to produce the mature 5'-terminus. It can also cleave other RNA substrates such as 4.5S RNA. The protein component plays an auxiliary but essential role in vivo by binding to the 5'-leader sequence and broadening the substrate specificity of the ribozyme.
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