RNA 3'-Terminal Phosphate Cyclase (rtcA) Shigella Boydii Serotype 18 Recombinant Protein

PRODUCT OVERVIEW

Product Name	RNA 3'-terminal phosphate cyclase (rtcA), Recombinant Protein
Full Product Name	Recombinant Shigella boydii serotype 18 RNA 3'-terminal phosphate cyclase (rtcA)
Product Gene Name	rtcA recombinant protein
Sequence	MKRMIALDGA QGEGGGQILR AALSLSMITG QPFTITSIRA GRAKPGLLRQ HLTAVKAAAE ICRATVEGAE LGSQRLVFRP GAVRGGEYRF AIGSAGSCTL VLQTVLPALW FADGPSRVEV SGGTDNPSAP PADFIRRVLE PLLAKIGIHQ QTTLLRHGFY PAGGGVVATE VSPVASFNTL QLGERGNIVQ MRGEVLLAGV PRHVAEREIA TLAGSFSLHE QNIHNLPRDQ GPGNTVSLEV ESENITERFF VVGEKRVSAE VVAAQLVKEV KRYLASPAAV GEYLADQLVL PMALAGAGEF TVAHPSCHLL TNIAVVERFL PVRFGLIETD GVTRVSIE
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	35,892 Da
Sequence Positions	1-338, Full length
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 B2U3M8
Species	Shigella boydii serotype 18 (strain CDC 3083-94 / BS512)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for rtcA recombinant protein	MBS1248622 is a recombinant protein targeting rtcA. Also known as Recombinant Shigella boydii serotype 18 RNA 3'-terminal phosphate cyclase (rtcA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of rtcA 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 rtcA. It may not necessarily be applicable to this product.

NCBI GI #	501390126
NCBI Accession #	WP_012421692.1
UniProt Primary Accession #	B2U3M8
GenBank Nucleotide #	WP_012421692.1
NCBI Official Full Name	RNA 3'-terminal phosphate cyclase

UniProt Protein Name	RNA 3'-terminal phosphate cyclase
Protein Family	Probable RNA 3'-terminal phosphate cyclase
UniProt Gene Name	rtcA
UniProt Synonym Gene Names	RNA cyclase; RNA-3'-phosphate cyclase
UniProt Comments for rtcA	Catalyzes the conversion of 3'-phosphate to a 2',3'-cyclic phosphodiester at the end of RNA. The mechanism of action of the enzyme occurs in 3 steps: (A) adenylation of the enzyme by ATP; (B) transfer of adenylate to an RNA-N3'P to produce RNA-N3'PP5'A; (C) and attack of the adjacent 2'-hydroxyl on the 3'-phosphorus in the diester linkage to produce the cyclic end product. The biological role of this enzyme is unknown but it is likely to function in some aspects of cellular RNA processing.
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