RNA 3'-Terminal Phosphate Cyclase (RTCD1) Pongo Abelii Recombinant Protein

PRODUCT OVERVIEW

Product Name	RNA 3'-terminal phosphate cyclase (RTCD1), Recombinant Protein
Full Product Name	Recombinant Pongo abelii RNA 3'-terminal phosphate cyclase (RTCD1)
Product Gene Name	RTCD1 recombinant protein
Product Synonym Gene Name	RTCD1
Sequence	MAGPRVEVDG SIMEGGGQIL RVSTALSCLL GLPLRVQKIR AGRSTPGLRP QHLSGLEMIR DLCDGQLEGA EIGSTEITFT PEKIKGGIHT ADTKTAGSVC LLMQVSMPCV LFAASPSKLH LKGGTNAEMA PQIDYTVMVF KPIVEKFGFV FNCDIKTRGY YPKGGGEVIV RMSPVKQLDP VNLTDRGCVT KIYGRAFVTG VLPFKVAKDM AAAAARCIRK EIRDSYVNIQ PVQEPKDQAF GNGNGIIIIA ETSTGCLFAG SSLGKRGVNA DKVGIGAAEM LLANLRHGGT VDEYLQDQLI VFMALANGVS RIKTGPVTLH TQTAIHFAEQ IAKAKFIVKK SEDEEDAAKG TYIIECQGIG MTNPNL
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	39,140 Da
Sequence Positions	1-366, 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 Q5R7P3
Species	Pongo abelii (Sumatran orangutan)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RTCD1 recombinant protein	MBS1398304 is a recombinant protein targeting RTCD1. Also known as Recombinant Pongo abelii RNA 3'-terminal phosphate cyclase (RTCD1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of RTCD1 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 RTCD1. It may not necessarily be applicable to this product.

NCBI GI #	197100184
NCBI GeneID	100173273
NCBI Accession #	NP_001126296.1
UniProt Primary Accession #	Q5R7P3

UniProt Related Accession #	Q5R7P3
GenBank Nucleotide #	NM_001132824.1
NCBI Official Full Name	RNA 3'-terminal phosphate cyclase
NCBI Official Symbol	RTCA
NCBI Official Synonym Symbols	RTCD1
UniProt Protein Name	RNA 3'-terminal phosphate cyclase
UniProt Synonym Protein Names	RNA terminal phosphate cyclase domain-containing protein 1
UniProt Gene Name	RTCA
UniProt Synonym Gene Names	RTCD1; RNA cyclase; RNA-3'-phosphate cyclase
NCBI Protein Information	RNA 3'-terminal phosphate cyclase
UniProt Comments for RTCD1	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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