Replication-Associated Protein (rep) Goose Circovirus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Replication-associated protein (rep), Recombinant Protein
Full Product Name	Recombinant Goose circovirus Replication-associated protein (rep)
Product Gene Name	rep recombinant protein
Product Synonym Names	Replication-associated protein; EC=2.7.7.-; EC=3.1.21.-; EC=3.6.1.3; ATP-dependent helicase Rep; RepP
Sequence	MAKNGNYSYK RWVFTINNPT FEDYCAVVEF CNLDNCKFAI VGEEKGEKEG TPHLQGFLSL RKNAKAAALE ENLGGRAWLS RARGSDEDNE EYCSKESTYL RVGEPNRKGR SSDLPDAASD VLAGLPITDV ARKYPTTYVM FGRGLERLRQ LIVETARDWK TEVIVLIGRP GSGKSRYAFE FPAREKYYKS RGKWWDGYNG QDVVVMDDFY GWLPYDDLLR ICDRYPLRVE YKGGMTQFVA KTLIITSNRE PRDWYKCEFD VSALYRRINQ YLILTPDGYA PAPEFMLPFK INY
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	33,842 Da
Sequence Positions	1-293aa; 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 Q91EK3
Species	Goose circovirus (GoCV)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for rep recombinant protein	MBS1480289 is a recombinant protein targeting rep. Also known as Recombinant Goose circovirus Replication-associated protein (rep). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of rep 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 rep. It may not necessarily be applicable to this product.

NCBI GI #	15148078
NCBI GeneID	921700
NCBI Accession #	NP_150368.1
UniProt Primary Accession #	Q91EK3
UniProt Related Accession #	Q91EK3

GenBank Nucleotide #	NC_003054.1
NCBI Official Full Name	putative replication associated protein
NCBI Official Symbol	rep
UniProt Protein Name	Replication-associated protein
UniProt Synonym Protein Names	ATP-dependent helicase Rep; RepP
Protein Family	ATP-dependent DNA helicase
UniProt Gene Name	rep
UniProt Entry Name	REP_GOCV
NCBI Protein Information	putative replication associated protein
UniProt Comments for rep	Essential for the replication of viral ssDNA. The closed circular ssDNA genome is first converted to a superhelical dsDNA. Rep and/or Rep' binds a specific hairpin at the genome origin of replication. Introduces an endonucleolytic nick within the conserved sequence 5'-AGTATTAC-3' in the intergenic region of the genome, thereby initiating the rolling circle replication (RCR). Following cleavage, binds covalently to the 5'-phosphate of DNA as a tyrosyl ester. The cleavage gives rise to a free 3'-OH that serves as a primer for the cellular DNA polymerase. The polymerase synthesizes the (+) strand DNA by rolling circle mechanism. After one round of replication, a Rep-catalyzed nucleotidyl transfer reaction releases a circular single-stranded virus genome, thereby terminating the replication. Displays origin-specific DNA cleavage, nucleotidyl transferase, ATPase and helicase activities. ATPase activity is probably carried by the isoform Rep ().
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