

Replication-associated protein Recombinant Protein | AC1 recombinant protein

Recombinant African cassava mosaic virus Replication-associated protein

CATALOG # AAA114405	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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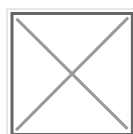
PRODUCT SYNONYMS

Replication-associated protein; Recombinant African cassava mosaic virus Replication-associated protein; 40.4 kDa protein; Protein AC1; Protein AL1; AC1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-358aa; Full Length
Sequence	MRTPRFRIQA KNVFLTPKC SIPKEHLLSF IQTSLQSNP KFIKICRELH QNGEPHLHAL IQFEGKITIT NNRLFDCVHP SCSTSFHPNI QGAKSSSDVK SYLDKDGDV EWGQFQIDGR SARGGQQSAN DAYAKALNSG SKSEALNVIR ELVPKDFVLQ FHNLNSNLDL IFQEPPAPYV SPFPCSSFDQ VPVEIEEWVA DNVIRDSAARP WRPNSIVIEG DSRTGKTIWA RSLGPHNYLC GHLDLSPKVF NNAAWYNVID DVDPHYLKHF KEFMGSQRDW QSNTKYGKPV QIKGGIPTIF LCNPGPTSSY KEFLAEKQE ALKAWALKNA IFITLTPLY SGSNQSHSQT SQEASHPA
Sequence Length	358
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for AC1 recombinant protein	Essential for the replication of viral ssDNA. The closed circular ssDNA genome is first converted to a superhelical dsDNA. Rep binds a specific region at the genome origin of replication. It introduces an endonucleolytic nick within the conserved sequence 5'-TAATATTAC-3' in the intergenic region of the genome present in all giniviruses, 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.
References	Nucleotide sequence of cassava latent virus DNA.Stanley J., Gay M.R.Nature 301:260-262(1983)

NCBI AND UNIPROT INFORMATION

NCBI GI #	137408
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UniProt Accession #	P14982
Molecular Weight	42.3 kDa
NCBI Official Full Name	Replication-associated protein
UniProt Protein Name	Replication-associated protein
UniProt Gene Name	AC1
UniProt Synonym Gene Names	Rep
UniProt Entry Name	REP_CLVK

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ac1-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/114405>