

Recombinant AAV-2 Rep78 Protein, Full Length, C-His tagged

Cat. No. Rep78-001V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length AAV-2 Rep78 protein with C-His tag was expressed in E. coli.
Species	AAV2
Source	E.coli
ProteinLength	Full Length
Description	Plays an essential role in the initiation of viral DNA synthesis. Binds specifically to an inverted terminal repeat element (ITR) on the 3' and 5' ends of the viral DNA, where it cleaves a site specifically to generate a priming site for initiation of the synthesis of a complementary strand. Also plays a role as transcriptional regulator, DNA helicase and as key factors in site-specific integration of the viral genome. Regulates host PKA activity by interacting with host PRKX as a mechanism of interfering with helper virus propagation and promoting its own replication. Inhibits the host cell cycle G1/S, S and G2/M transitions. These arrests may provide essential cellular factors for viral DNA replication.
Molecular Mass	71 kDa
AA Sequence	MPGFYEIVIKVPSDL DGHLPGISDSFVNWVAEKEWELPPDSMDLNLIEQAPLTVAE KLQRDFLTEWRRVSKAPEALFFVQFEKGESYFHMHVLVETTGVKSMVLGRFLSQIR EKLIQRIYRGIEPTLPNWFVAVTKTRNGAGGGNKVVDECYIPNYLLPKTQPELQWAWT NMEQYLSACLNLTERKRLVAQHLTHVSQTQEQNKENQNPNSDAPVIRSKTSARYME LVGWLVDKGITSEKQWIQEDQASYISFNAASNSRSQIKAALDNAGKIMSLTKTAPDYL

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VGQQPVEDISSNRIYKILELNGYDPQYAASVFLGWATKKFGKRNTIWLFGPATTGKT
 NIAEAIAHTVPFYGCVNWTNENFPFNDKMDKMWIWWEEGKMTAKVVESAKAILGGS
 KVRVDQKCKSSAQIDPTPVIVTSNTNMCAVIDGNSTTFEHQQPLQDRMFKFELTRRL
 DHDFGKVTQKEVKDFFRWAKDHVVEVEHEFYVKKGGAKKRPAPSDADISEPKRVR
 ESVAQPSTSDAEASINYADRYQNKCSRHVGMNMLFPCRQCERMNQNSNICFTHG
 QKDCLECFPVSESQPVSVVKKAYQKLCYIHHIMGKVPDACTACDLVNVLDLDDCIFEQ
 HHHHHHHH

Purity > 90% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Storage Buffer Lyophilized from sterile 50mM Tris, 300mM NaCl, pH8.5, 5% Mannitol, 5% Trehalose.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.44 mg/mL. Centrifuge the vial at 4 centigade before opening to recover the entire contents.

GENE INFORMATION

Gene Name [AAV2gp02 Rep 78 protein \[Adeno-associated virus - 2 \]](#)

Official Symbol [AAV2gp02](#)

Synonyms AAV2gp02; Rep 78 protein; Rep78

Gene ID [1489608](#)

Protein Refseq [YP_680423](#)

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UniProt ID Q89268

**Reducing 12% SDS-
PAGE (CBB stained)
and WB (Anti-His
Mouse Monoclonal
antibody) analysis
profiles of purified
Rep78.**

1. Rep78
2. BSA

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