

Recombinant AAV-2 Rep68 Protein, Full Length, C-His tagged

Cat. No. Rep68-001V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length AAV-2 Rep68 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 factor in site-specific integration of the viral genome. Inhibits the host cell cycle G1/S and G2/M transitions. These arrests may provide essential cellular factors for viral DNA replication.
Molecular Mass	61 kDa
AA Sequence	MPGFYEIVIKVPSDL DGHLPGISDSFVNWVAEK EWELPPDSMDLNLIEQAPLTVAE KLQRDFLTEWRRVSKAPEALFFVQFEKGESYFHMHVLVETTGVKSMVLGRFLSQIR EKLIQRIYRGIEPTLPNWFVAVTKTRNGAGGGNKVVDECYIPNYLLPKTQPELQWAWT NMEQYLSACLNLTERKRLVAQHLTHVSQTQE QNKENQNPNSDAPVIRSKTSARYME LVGWLVDKGITSEKQWIQEDQASYISFNAASNSRSQIKAALDNAGKIMSLTKTAPDYL VGQQPVEDISSNRIYKILELNGYDPQYAASVFLGWATKKFGKRNTIWLFGPATTGKT NIAEIAHTVPFYGCVNWTNENFPFND CVDKMVIWWEEGKMTAKVVESAKAILGGS

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

KVRVDQKCKSSAQIDPTPVIVTSNTNMCAVIDGNSTTFEHQQPLQDRMFKFELTRRL
DHDFGKVTQKEVKDFFRWAKDHVVEVEHEFYVKKGGAKKRPAPSDADISEPKRVR
ESVAQPSTSDAEASINYADRLARGHSLHHHHHHHH

Purity > 92% 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, 1mM EDTA, 5% Mannitol, 5% Trehalose.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.6 mg/mL. Centrifuge the vial at 4 centigade before opening to recover the entire contents.

GENE INFORMATION

Gene Name AAV2gp01 Rep 68 protein [Adeno-associated virus - 2]

Official Symbol AAV2gp01

Synonyms AAV2gp01; Rep 68 protein; Rep68

Gene ID 4192013

Protein Refseq YP_680422

UniProt ID P03132

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**Reducing 12% SDS-
PAGE (CBB stained)
and WB (Anti-His
Mouse Monoclonal
antibody) analysis
profiles of purified
Rep68-001V**

1. Rep68
2. BSA

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