

Adeno-associated virus 2 (isolate Srivastava/1982) Rep78 Protein (His & MBP)

General Information

Synonyms: Protein Rep78;Rep78

Protein Construction: 1-621 aa

Species: AAV-2

Expression Host: E. coli

Accession: Q89268

Molecular Weight: 114.3 kDa (predicted)

AA Sequence:
MPGFYEIVKVPDLDGHLPGISDSFVNWVAEKEWELPPDSDMDLNLIEQAPLTVAEKLQRDFLTEWRRVSKA
PEALFFVQFEKGESYFHMHVLVETTGVKSMVLGRFLSQIREKLIQRIYRGIEPTLPNWFVAVTKTRNGAGGGNKV
VDECYIPNYLLPKTQPELQWAWTNMEQYLSACLNLTERKRLVAQHLTHVSQTQEQNKENQNPNSDAPVIRS
KTSARYMELVGWLVDKGITSEKQWIQEDQASYISFNAASNSRSQIKAALDNAGKIMSLTKTAPDYLVGQQPV
EDISSNRIYKILELNGYDPQYAASVFLGWATKKFGKRNTIWLFGPATTGKTNIAEIAHTVPFYGCVNWTNENF
PFNDCVDKMVIWWEEGKMTAKVVESAKAILGGSKVRVDQKCKSSAQIDPTPVIVTSNTNMCAVIDGNSTTFF
HQQPLQDRMFKFELTRRLDHDGKVTQEVKDFFRWAKDHVVEVEHEFYVKKGGAKKRPAPSDADISEPKR
VRESVAQPSTSDAEASINYADRYQNKCSRHVGMNLMFLPCRQCERMNQNNSNICFTHGQKDCLECFPVSESQ
PVSVVKKAYQKLCYIHHIMGKVPDACTACDLVNVLDLDDCIFEQ

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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. Plays also 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.

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