

## Human adenovirus C serotype 2 DNA-binding protein (His)

### General Information

Synonyms:	DNA-binding protein;Early E2A DNA-binding protein;Early 2A protein;DBP
Protein Construction:	174-529 aa
Species:	HAdV-2
Expression Host:	E. coli
Accession:	P03264
Molecular Weight:	45.8 kDa (predicted)
AA Sequence:	SLPIVSAWEKGMEEAARALMDKYHVDNDLKANFKLLPDQVEALAAVCKTWLNEEHRLQLTFTSNKTFVTMM GRFLQAYLQSF AEVYKHHEPTGCALWLHRCAEIEGELKCLHGSIMINKEHVIEDVTSSENGQRALKEQSSKA KIVKNRWGRNVVQISNTDARCCVHDAACPANQFSGKSCGMFFSEGAQAQVAFKQIKAFMQALYPNAQTGH GHLLMPLRCECNSKPGHAPFLGRQLPKLTPFALSNAEDLDADLISDKSVLASVHHPALIVFQCCNPVYRNSRA QGGGPNCDFKISAPDLLNALVMVRSLWSENFTELPRMVVPEFKWSTKHQYRNVSLPVAHSDARQNPFD

### 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. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

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Plays a role in the elongation phase of viral strand displacement replication by unwinding the template in an ATP-independent fashion, employing its capacity to form multimers. Also enhances the rate of initiation. Released from template upon second strand synthesis. Assembles in complex with viral pTP, viral pol, host NFIA and host POU2F1/OCT1 on viral origin of replication. Covers the whole ssDNA genome during synthesis. The complementary strand synthesis induces its release from DNA template. May inhibit cellular transcription mediated by the interaction between host SRCAP and CBP.

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