

Human adenovirus C serotype 5 E1B 55 kDa protein (His & Myc)

General Information

Synonyms: E1B-55K;E1b55K;E1B-495R;E1B 55 kDa protein;E1B protein, large T-antigen

Protein Construction: 1-496 aa

Species: HAdV-5

Expression Host: E. coli

Accession: P03243

Molecular Weight: 62.4 kDa (predicted)

AA Sequence: MERRNPSEKGVPAFGSGHASVESGCETQESPATVVFRRPPGDNTDGGAAAAAGGSQAAAAGAEPMEPESRP
GPSGMNVVQVAELYPELRRILTITEDGQGLKGVKREGRACEATEEARNLAFSLMTRHRPECITFQQIKDNCAN
ELDLLAQKYSIEQLTTYWLQPGDDFEEAIRVYAKVALRPDCKYKISKLVNIRNCCYISGNGAEVEIDTDRVAFR
CSMINMWPGLGMDGVVIMNVRFTGPNFSGTVFLANTNLILHGVSFYGFNNTCVEAWTDVVRVRCFAFYCCW
KGVVCRPKSRASIKKCLFERCTLGILSEGNSRVRHNVASDCGCFMLVKSVAVIKHNMVCGNCEDRASQMLTCS
DGNCHLLKTIHVASHSRKAWPVFEHNILTRCSLHLGNRRGVFLPYQC�LSHTKILLEPESMSKVNLNGLVFDMT
MKIWKVLRVDETRTRCRPCECGGKHIRNQPVMLDVTEELRPDHLVLACTRAEFGSSDEDTD

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 a major role to prevent cellular inhibition of viral genome replication. Assembles an SCF-like E3 ubiquitin ligase complex based on the cellular proteins ELOB, ELOC, CUL5 and RBX1, in cooperation with viral E4orf6. This viral RING-type ligase ubiquitinates cellular substrates and targets them to proteasomal degradation: TP53/p53, LIG4, MRE11-RAD50-NBS1 (MRN) complex, ITGA3, DAXX and BLM. Degradation of host TP53/p53 activity is essential for preventing E1A-induced TP53 accumulation that would otherwise lead to cell apoptosis and growth arrest. E1B-55K also inactivates TP53 transcription-factor activity by binding its transactivation domain. E1B-55K also functions as a SUMO1 E3 ligase for TP53 which causes the latter to be sequestered in promyelocytic leukemia (PML) nuclear bodies thereby contributing to maximal inhibition of TP53 function.

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