

## Zaire ebolavirus (strain Kikwit-95) VP30 Protein (His)

### General Information

Synonyms:	VP30;Transcriptional activator VP30;EbolaVP30 (eVP30);Minor nucleoprotein VP30
Protein Construction:	1-288 aa
Species:	ZEBOV
Expression Host:	E. coli
Accession:	Q77DJ5
Molecular Weight:	38.0 kDa (predicted)
AA Sequence:	MEASYERGRPRAARQHSDGHDHVRARSSSRENYRGEYRQSRASQVRVPTVFHKKRVEPLTVPPAPKDI CPTLKKGFLCDSSFCKKDHQLES LTDRELLLIARKTCGSVEQQLNITAPKDSRLANPTADDFQQEEGPKITLLT LIKTAEHWARQDIRTIEDSKLRALLTLCAVMTRKFSKSQLSLLCETHLRREGLGQDQAEPVLEVYQRLHSDKGG SFEAALWQQWDRQSLIMFITAFNLIALQLPCESSAVVVSGLRTLVPQSDNEEASTNPGTCSWSDEGTP

### 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:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### 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

Multifunctional protein that acts as a viral transcriptional activator. Promotes read-through of an RNA hairpin in the NP open reading frame to enhance viral transcription. Mechanistically, nonphosphorylated VP30 hexamers form a ternary complex with the viral leader RNA. Clamps the RNA template and the complex VP35-polymerase L together, thereby increasing the polymerase affinity for the RNA template to increase transcription initiation

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despite the presence of RNA secondary structures. Assists also stop-start transcription at gene junctions to promote transcription of downstream genes. Interaction with NP plays a critical role in transcription initiation by recognizing the RNA stem loop. Interaction with host RBBP6 interferes with NP-VP30 interaction and inhibits viral RNA synthesis. Also acts as a suppressor of RNA silencing by interacting with host DICER1 and TARBP2/TRBP.

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