

## Zaire ebolavirus (strain Mayinga-76) Nucleoprotein/NP Protein (His)

### General Information

Synonyms:	Ebola NP (eNP);NP;Nucleoprotein;Nucleocapsid protein (Protein N)
Protein Construction:	488-739 aa
Species:	ZEBOV
Expression Host:	P. pastoris (Yeast)
Accession:	P18272
Molecular Weight:	31.1 kDa (predicted)
AA Sequence:	LDEDEDTKPVPNRSTKGGQKNSQKGQHIEGRQTQSRPIQNVPGPHRTIHHASAPLTDNDRRNEPSGSTS PRMLTPINEEADPLDDADDETSSLPPLESDDDEEQDRDGTSNRTPTVAPPAPVYRDHSEKKELPQDEQQDQD HTQEARNQSDNTQSEHSFEEMYRHILRSQGPFDVLYYHMMKDEPVVFSTSDGKEYTYPDSLEEEYPPWL TEKEAMNEENRFVTLDGQQFYWPVMNHKNKFMALQHHQ

### 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

Oligomerizes into helical capsid to encapsidate the viral genome, protecting it from nucleases and the cellular innate immune response. VP35 binds to and stabilizes monomeric NP, keeping it soluble. Upon virus replication, NP is recruited to bind cooperatively viral genomic RNA and VP35 is released. The encapsidated genomic RNA is termed the nucleocapsid and serves as template for transcription and replication. The nucleocapsid is helical with

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a pitch of 10.81 NP per turn and a diameter of about 22nm. Each NP binds to six nucleotides of viral genomic RNA, three being exposed to the solvent and three hidden into the nucleocapsid. Recruits also host PPP2R5C phosphatase to dephosphorylate VP30 and thereby promote viral transcription. Upon virion assembly and budding, NP binds to VP24 and possibly host STAU1.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481