

## Lassa virus (strain Mouse/Sierra Leone/Josiah/1976) Nucleoprotein/NP Protein

### General Information

Synonyms: Nucleocapsid protein;Protein N;Nucleoprotein

Protein Construction: 1-569 aa

Species: LASV

Expression Host: E. coli

Accession: P13699

Molecular Weight: 63.0 kDa (predicted)

AA Sequence: MSASKEIKSFLWTQSLRRELSGYCSNIKLVVVKDAQALLHGLDFSEVSNVQRLMRKERRDDNDLKRLRDLNQAVNNLVELKSTQQKSILRVGTLTSDDLLILAADLEKLKSKVIRTERPLSAGVYMGNLSSQQLDQRRALLNMIGMSGGNQGARAGRDGVVRVWDVKNNAELLNQFGTMPSLTLACLTKQGQVDLNDVQALTDLGLIYTAKYPNTSDLDRLTQSHPIILNMIDTKKSSLNISGYNFSLGAAVKAGACMLDGGNMLETIKVSPQTM DGILKSILKVKKALGMFISDTPGERNPYENILYKICLSGDGWPYIASRTSITGRAWENTVVDLES DGKPKADSNSSKSLQSAGFTA GLTYSQLMTLKDAMLQLDPNAKTWMDIEGRPEPVEIALYQPSSGCYIHFFREPTDLKQFKQDAKYSHGIDVTDL FATQPGLTSAVIDALPRNMVITCQGSDDIRKLLESQGRKDIKLIDIALSKTDSRKYENAVWDQYKDLCHMHTGVVVEKKKRGGKKEITPHCALMDCIMFDAAVSGLNTSVLRAVLPRDMVFRTSTPRVVL

### 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: 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

Encapsidates the genome, protecting it from nucleases. The encapsidated genomic RNA is termed the nucleocapsid (NC). Serves as template for viral transcription and replication. The increased presence of protein N in host cell does not seem to trigger the switch from transcription to replication as observed in other negative strain RNA viruses. Through the interaction with host IKBKE, strongly inhibits the phosphorylation and nuclear translocation of host IRF3, a protein involved in interferon activation pathway, leading to the inhibition of interferon-beta and IRF3-dependent promoters activation. Encodes also a functional 3'-5' exoribonuclease that degrades preferentially dsRNA substrates and thereby participates in the suppression of interferon induction.

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