

## Nucleocapsid (N) Protein from Rift Valley Fever Virus, Recombinant from Baculovirus

### Catalog No. NR-12121

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**For research use only. Not for use in humans.**

#### Contributor:

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#### Manufacturer:

BEI Resources

#### Product Description:

A recombinant form of the nucleocapsid (N) protein from Rift Valley fever (RVF) virus (GenPept: [ABP88854](#)) was produced in Sf9 insect cells using a baculovirus expression vector system<sup>1</sup> and purified by 20% sucrose cushion ultracentrifugation and PD 10 columns. NR-12121 has a theoretical molecular weight of 27.5 kilodaltons. The crystal structure for N protein from RVF virus has been solved at 2.7 Å resolution (PDB: [4H5Q](#)). The protein is essential for replication, transcription and virus assembly<sup>1</sup>.

#### Material Provided:

Each vial contains approximately 200 to 250 µg of purified recombinant N protein in 100mM Tris (pH ~ 7.4), 100mM NaCl, and 1mM EDTA. The concentration, expressed as mg/mL, is shown on the Certificate of Analysis.

#### Packaging/Storage:

Purified recombinant protein was packaged aseptically, in screw-capped plastic cryovials. This product is provided on dry ice and should be stored at -80°C or colder immediately upon arrival.

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Nucleocapsid (N) Protein from Rift Valley Fever Virus, Recombinant from Baculovirus, NR-12121."

#### Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. [Biosafety in Microbiological and Biomedical Laboratories](#). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

#### Disclaimers:

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#### References:

1. Liu, L., C. C. Celma and P. Roy. "Rift Valley Fever Virus Structural Proteins: Expression, Characterization and Assembly of Recombinant Proteins." *Virology*, 5 (2008): 82. PubMed: 18638365.

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