

Synonym

Nucleocapsid protein, NP, Protein N, COVID-19

Source

SARS-CoV-2 Nucleocapsid protein, His Tag (NUN-C5221) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Ala 419 (Accession # [QHO62115.1](#)).

Predicted N-terminus: Met 1

Molecular Characterization

Nucleocapsid protein(Met 1 - Ala 419) QHO62115.1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 47.3 kDa.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Formulation

Delivered as bulk protein in a 0.2 µm filtered solution of 10 mM PB, 150 mM NaCl, pH7.4.

Contact us for customized product form or formulation.

Storage

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

Shipping

This product is supplied as sterile liquid solution and shipped frozen with dry ice, please inquire the shipping cost.

Background

Nucleocapsid protein is a most abundant protein of coronavirus. Nucleocapsid protein is a highly immunogenic phosphoprotein also implicated in viral genome replication and in modulating cell signaling pathways. While screening for ADP-ribosylated proteins during coronavirus (CoV) infection, we identified as the viral nucleocapsid (N) protein. Novel post-translation modification of the CoV N protein that may play a regulatory role for this important structural protein. The array of diverse functional activities accommodated in the hantaviral N protein goes far beyond to be a static structural protein and makes it an interesting target in the development of antiviral therapeutics. Because of the conservation of N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a diagnostic tool.

References

- (1) [Reuter M, et al. Virus Genes. 2018. 54\(1\):5-16.](#)
- (2) [Grunewald ME, et al. Virology. 2018. 517:62-68.](#)
- (3) [Jeeva S, et al. PLoS One. 2017. 12\(9\):e0184935.](#)

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