

This product is still under development. Please contact us if you have interest in this product. We will accelerate the development process accordingly and reserve this product for you as request.

Synonym

Nucleocapsid protein,NP,Protein N,COVID-19

Source

MERS Nucleocapsid protein, His Tag (NUN-M51H5) is expressed from E.coli cells. It contains AA Met 1 - Asp 413 (Accession # K0BVN3-1).

Predicted N-terminus: Met

Molecular Characterization

Nucleocapsid protein(Met 1 - Asp 413) K0BVN3-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 46.9 kDa.

Endotoxin**Formulation**

Please contact us for detailed information.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

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.](#)

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.