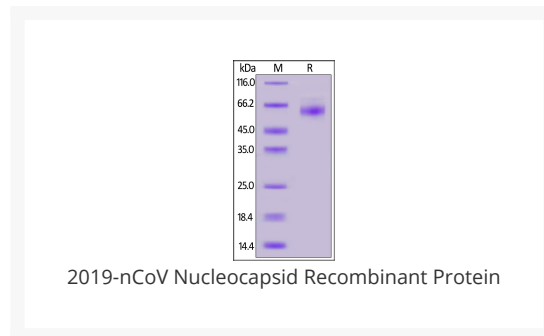




2019-nCoV Nucleocapsid Recombinant Protein

Cat. No.: 97-085



Ψ Specifications

SPECIES:	SARS-CoV-2
SOURCE SPECIES:	HEK293 cells
SEQUENCE:	Met 1 - Ala 419
FUSION TAG:	His Tag
TESTED APPLICATIONS:	WB
APPLICATIONS:	This recombinant protein can be used for WB. For research use only.
PREDICTED MOLECULAR WEIGHT:	49.4 kDa

Ψ Properties

PURITY:	>95% as determined by SDS-PAGE.
PHYSICAL STATE:	Lyophilized
BUFFER:	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

STORAGE CONDITIONS:	Lyophilized protein should be stored at -20°C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20°C or -70°C. Avoid repeated freeze-thaw cycles.
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Ψ Additional Info

ALTERNATE NAMES:	Nucleocapsid protein, NP, Protein N
ACCESSION NO.:	QHO62115.1

Ψ Background and References

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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