Recombinant SARS-CoV-2 N Protein, His-tagged

Cat. No. N-44S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein is produced by our E.coli expression system and the target gene encoding Met1-Ala419 is expressed with a 6His tag at the N-terminus.
Species	SARS-CoV-2
Source	E.coli
Description	Coronavirus N protein is required for coronavirus RNA synthesis, and has RNA chaperone activity that may be involved in template switch. Nucleocapsid protein is a most abundant protein of coronavirus. N protein packages the positive strand viral genome RNA into a helical ribonucleocapsid (RNP) and plays a fundamental role during virion assembly through its interactions with the viral genome and membrane protein M. Plays an important role in enhancing the efficiency of subgenomic viral RNA transcription as well as viral replication. Because of the conservation of N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a diagnostic tool.
Form	Supplied as a 0.2 uM filtered solution of 20 mM Tris-HCl,300 mM NaCl, 1mM EDTA, pH 8.0.
Molecular Mass	Predicted Molecular Weight: 49.4kDa Apparent Molecular Weight: 50-60kDa under reducing condition.
AA Sequence	Met1-Ala419

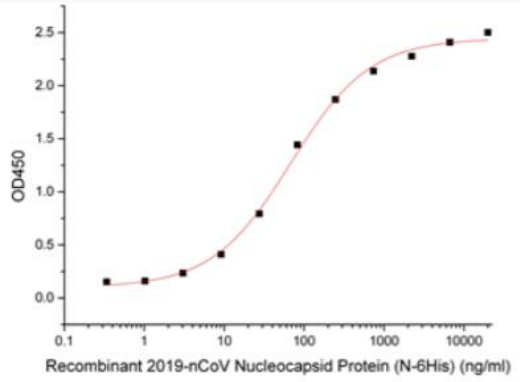
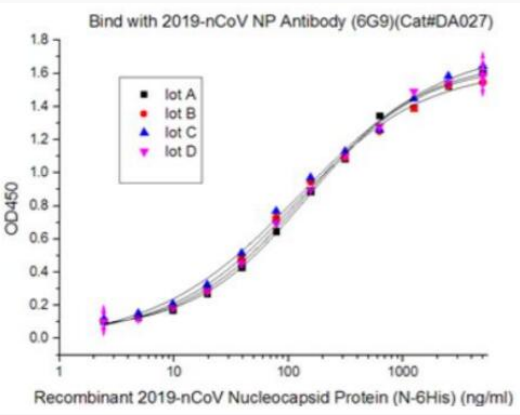
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Endotoxin	Less than 0.1 ng/ug (1 EU/ug).
Purity	>95%
Applications	Immunogen, calibrator or standard.
Storage	Reconstituted protein solution should be stored at ≤ -20 centigrade.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Please aliquot the solution to minimize freeze-thaw cycles. It is not recommended to dilute a concentration less than 100 µg/ml.
Quality Statement	Purity: Greater than 95% as determined by reducing SDS-PAGE.
Shipping	The product is shipped on dry ice pack.

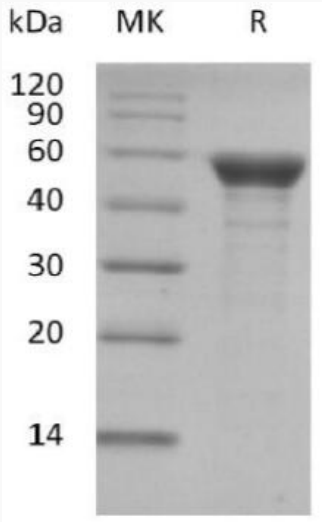
GENE INFORMATION

Gene Name	N nucleocapsid phosphoprotein [Severe acute respiratory syndrome coronavirus 2]
Official Symbol	N
Synonyms	2019-nCoV coronavirus NP Protein; 2019-nCoV np Protein; 2019-nCoV novel coronavirus Nucleoprotein Protein
Gene ID	43740575
Protein Refseq	YP_009724397.2
UniProt ID	P0DTC9

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Bioactivity	 Immobilized SARS-CoV-2 (2019-nCoV) NP Antibody (6G9) at 5μg/ml (100 μl/well) showing the binding to SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein-His. The ED50 of SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein-His is 68 ng/ml.
Bioactivity	 Batch stability is confirmed by binding ability with and-2019-nCoV NP Antibody(6G9). The result showed that the batch variation is no significant differences among these samples.

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SDS-PAGE	 Purity: Greater than 95% as determined by reducing SDS-PAGE.

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