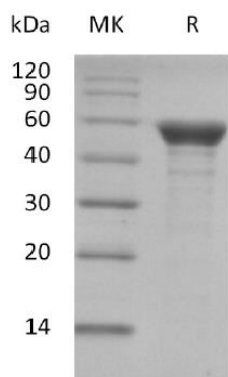


## Recombinant SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein

Catalog No: DRA31

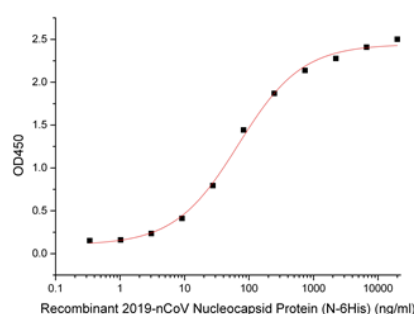
<b>Description</b>	Recombinant SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein is produced by our <i>E.coli</i> expression system and the target gene encoding Met1-Ala419 is expressed with a 6His tag at the N-terminus.
<b>Source</b>	<i>E.coli</i>
<b>Alternative Name</b>	2019-nCoV coronavirus NP Protein; 2019-nCoV np Protein; 2019-nCoV novel coronavirus Nucleoprotein Protein
<b>Accession</b>	QHD43423.2
<b>Predicted Molecular Weight</b>	49.4kDa
<b>AP Molecular Weight</b>	50-60kDa under reducing condition
<b>Quality Control</b>	Purity: Greater than 95% as determined by reducing SDS-PAGE.
<b>Formulation</b>	Supplied as a 0.2 $\mu$ M filtered solution of 20 mM Tris-HCl, 300 mM NaCl, 1mM EDTA, pH 8.0
<b>Reconstitution</b>	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 $\mu$ g/ml.
<b>Shipping</b>	The product is shipped on dry ice pack
<b>Storage</b>	Reconstituted protein solution should be stored at $\leq -20^{\circ}\text{C}$
<b>Application</b>	Immunogen, calibrator or standard.
<b>Background</b>	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.

### SDS-PAGE



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

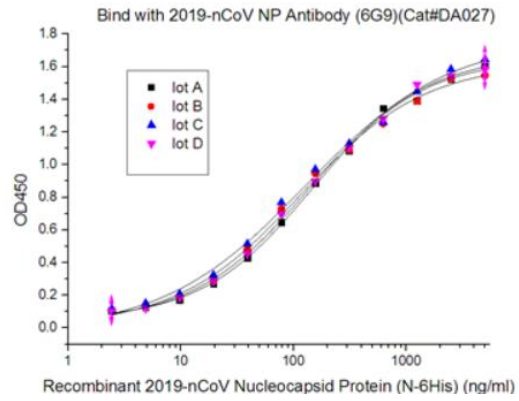
### Bioactivity



Immobilized SARS-CoV-2 (2019-nCoV) NP Antibody (6G9)(Cat#DA027) at 5 $\mu$ g/ml (100  $\mu$ l/well) showing the binding to SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein-His (Cat#DRA31).

The ED50 of SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein-His (Cat#DRA31) is 68 ng/ml.

## Batch Stability



Batch stability is confirmed by binding ability with and-2019-nCoV NP Antibody(6G9)(Cat#DA027).

The result showed that the batch variation is no significant differences among these samples.