

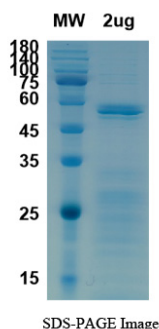
## Product Details

### Summary

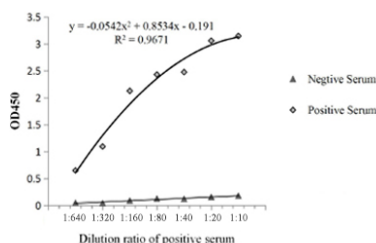
<b>Product name</b>	Recombinant 2019-nCoV Nucleocapsid protein
<b>Catalog#</b>	ATEP02448COV
<b>description</b>	Recombinant SARS-CoV-2 Nucleocapsid protein is produced by E.coli expression system and the target gene encoding Met1-Ala419 is expressed with N-His Tag
<b>Expression system</b>	E.coli
<b>Species</b>	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)
<b>Accession #</b>	QHD43423.2
<b>Alternative names</b>	Nucleoprotein
<b>Predicted Molecular Mass</b>	47.79kDa
<b>Actual Molecular Mass</b>	50-60kDa
<b>Purity</b>	>90% as determined by SDS-PAGE
<b>Endotoxin level</b>	Please contact with the lab for this information.
<b>Formulation</b>	Lyophilized. Lyophilized from a solution in PBS pH 7.4, 1mM EDTA, 4% Trehalose, 1% Mannitol.
<b>Shipping</b>	In general, proteins are shipped out with blue ice unless customers require otherwise.
<b>Stability &amp; Storage</b>	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 °C for one week . Store at -20 to -80 °C for twelve months from the date of receipt.
<b>Reconstitution</b>	Reconstitute in sterile water for a stock solution.
<b>Application</b>	Immunogen
<b>Spccificity</b>	



## SDS-PAGE image



## Bioactivity



## Background

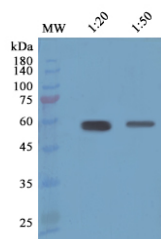
Coronavirus N protein is required for coronavirus RNA synthesis, and has RNA chaperone activity that may be involved in template switch. Nucleocapsid protein is a most abundant protein of coronavirus. N protein packages the positive strand viral genome RNA into a helical ribonucleocapsid (RNP) and plays 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.

## Product performance

Form

Recombinant SARS-CoV-2(2019-nCoV) Nucleocapsid protein

## Tested Picture



## Note

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For research use only.

