

# Active Recombinant COVID-19 N protein(BA.5/Omicron), His-tagged

**Cat. No.** N-714V    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Recombinant COVID-19 N protein(BA.5/Omicron)(Met 1 - Ala 419)(Accession # QHO62115.1(P13L, ERS31-33del, E136D, R203K, G204R, S413R)), fused with His tag at the C-terminus, was expressed in HEK293.      |
| <b>Species</b>          | Sars-CoV-2                                                                                                                                                                                                |
| <b>Source</b>           | HEK293                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | Met 1 - Ala 419                                                                                                                                                                                           |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in PBS, 0.2M Arginine, pH7.4. Normally trehalose is added as protectant before lyophilization.                                                                 |
| <b>Bio-activity</b>     | Immobilized SARS-CoV-2 Nucleocapsid protein, His Tag (BA.5/Omicron) at 1 µg/mL (100 µL/well) can bind Anti-SARS-CoV-2 Nucleocapsid Antibody, Chimeric mAb, Human IgG1 with a linear range of 0.1-2 ng/ML. |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 47.1 kDa. The protein migrates as 55-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.                                                              |
| <b>Endotoxin</b>        | Less than 1.0 EU per µg by the LAL method.                                                                                                                                                                |
| <b>Purity</b>           | >95% as determined by SDS-PAGE.                                                                                                                                                                           |

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| <b>Storage</b> | <p>This product is stable after storage at:</p> <p>-20°C to -70°C for 12 months in lyophilized state;</p> <p>-70°C for 3 months under sterile conditions after reconstitution.</p> |
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| <b>Reconstitution</b> | <p>It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.</p> |
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## GENE INFORMATION

|                  |                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------|
| <b>Gene Name</b> | <a href="#">N nucleocapsid phosphoprotein [ Severe acute respiratory syndrome coronavirus 2 ]</a> |
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|                        |                   |
|------------------------|-------------------|
| <b>Official Symbol</b> | <a href="#">N</a> |
|------------------------|-------------------|

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Synonyms</b> | <p>coronavirus NP Protein, 2019-nCoV; coronavirus Nucleocapsid Protein, 2019-nCoV; coronavirus Nucleoprotein Protein, 2019-nCoV; cov np Protein, 2019-nCoV; ncov NP Protein, 2019-nCoV; NCP-CoV Nucleocapsid Protein, 2019-nCoV; novel coronavirus NP Protein, 2019-nCoV; novel coronavirus Nucleocapsid Protein, 2019-nCoV; novel coronavirus Nucleoprotein Protein, 2019-nCoV; np Protein, 2019-nCoV; nucleocapsid Protein, 2019-nCoV; Nucleoprotein Protein, 2019-nCoV</p> |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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| <b>Gene ID</b> | <a href="#">43740575</a> |
|----------------|--------------------------|

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|-----------------------|--------------------------------|
| <b>Protein Refseq</b> | <a href="#">YP_009724397.2</a> |
|-----------------------|--------------------------------|

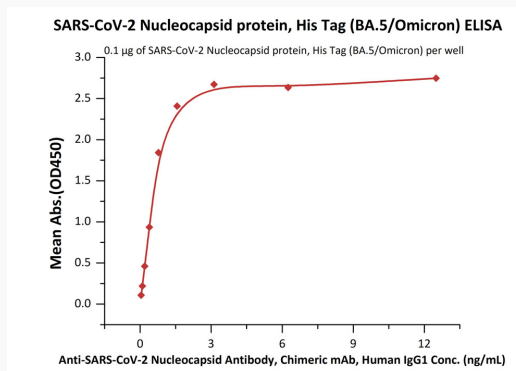
|                   |                        |
|-------------------|------------------------|
| <b>UniProt ID</b> | <a href="#">P0DTC9</a> |
|-------------------|------------------------|

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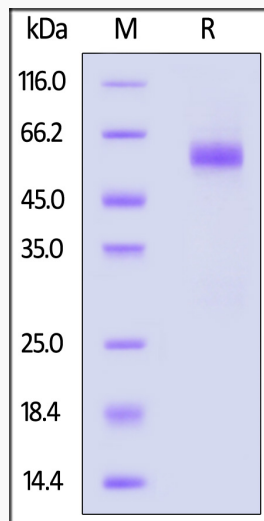
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## Bioactivity-ELISA



## SDS-PAGE



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