

## Recombinant COVID-19 (B.1.1.529 sublineage BA.2) Nucleocapsid protein(Met1-Ala419), His-tagged

**Cat. No.** N-1219V    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant SARS-CoV-2 (B.1.1.529 sublineage BA.2) Nucleocapsid (YP_009724397.2, with mutations P13L, ERS31-33 del, R203K, G204R, S413R) (Met1-Ala419) was expressed in E. coli with a polyhistidine tag at the N-terminus. The mutations were identified in the SARS-CoV-2 variant (known as variant B.1.1.529 sublineage BA.2). |
| <b>Species</b>          | Sars-CoV-2                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | Met1-Ala419                                                                                                                                                                                                                                                                                                                       |
| <b>Form</b>             | Lyophilized from sterile 50mM PB, 500mM NaCl, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                                                                                    |
| <b>Molecular Mass</b>   | The recombinant SARS-CoV-2 (B.1.1.529 sublineage BA.2) Nucleocapsid consists of 423 amino acids and predicts a molecular mass of 46.38 kDa.                                                                                                                                                                                       |
| <b>Purity</b>           | > 90 % as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>          | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                                                                                   |

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**Reconstitution**

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.

**GENE INFORMATION**

|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
| <b>Gene Name</b> | N nucleocapsid phosphoprotein [ Severe acute respiratory syndrome coronavirus 2 ] |
|------------------|-----------------------------------------------------------------------------------|

|                        |   |
|------------------------|---|
| <b>Official Symbol</b> | N |
|------------------------|---|

|                 |                 |
|-----------------|-----------------|
| <b>Synonyms</b> | N; Nucleocapsid |
|-----------------|-----------------|

|                |          |
|----------------|----------|
| <b>Gene ID</b> | 43740575 |
|----------------|----------|

|                       |                |
|-----------------------|----------------|
| <b>Protein Refseq</b> | YP_009724397.2 |
|-----------------------|----------------|

|                   |        |
|-------------------|--------|
| <b>UniProt ID</b> | P0DTC9 |
|-------------------|--------|

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