

## Recombinant SARS-CoV-2 (Omicron B1.1.529 Variant) N Protein (Met1-Ala416), Animal-free, Carrier-free

**Cat. No.** N-333S    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant SARS-CoV-2 (Omicron B1.1.529 Variant) N Protein (Met1-Ala416) without tag was expressed in E. coli and Animal-free as well as Carrier-free.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | SARS-CoV-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | Met1-Ala416                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | SARS-CoV-2 is a kind of coronavirus which full name is severe acute respiratory syndrome coronavirus 2. SARS-CoV-2 is contagious that causes the respiratory diseases and lung diseases which make difficulty breathing. SARS-CoV-2 do the spillover event in 2019 because it has genetic diversity. SARS-CoV-2 is composed by four subunits (spike, envelope, membrane and nucleocapsid proteins). Its RNA genome is encapsulated with nucleocapsid protein. The viral envelope is comprised of spike, envelope and membrane protein. SARS-CoV-2 has high affinity to ACE2, which is highly expression in intestines, kidney, and heart. |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 45.33 kDa.<br>The protein migrates about 45 kDa under reducing condition (SDS-PAGE analysis).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

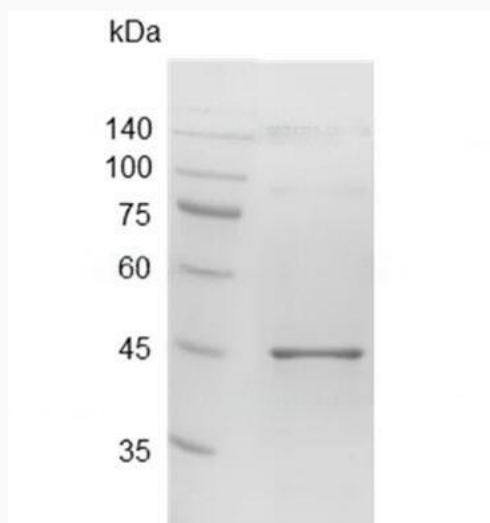
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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | >90% as determined by SDS-PAGE analysis.                                                                                                                                                                                                      |
| <b>Storage</b>          | This product is stable after storage at:<br>-20 centigrade for 12 months in lyophilized state from date of receipt.<br>-20 or -80 centigrade for 1 month under sterile conditions after reconstitution.<br>Avoid repeated freeze/thaw cycles. |
| <b>Storage Buffer</b>   | Lyophilized from a 0.2 µm filtered solution of PBS containing 0.5 M NaCl, pH 7.4.                                                                                                                                                             |
| <b>Reconstitution</b>   | It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.                       |
| <b>Shipping</b>         | The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.                                                                                                                 |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                               |
| <b>Official Symbol</b>  | N                                                                                                                                                                                                                                             |
| <b>Synonyms</b>         | N; Nucleocapsid                                                                                                                                                                                                                               |

**SDS-PAGE analysis  
of Human SARS-  
CoV-2 nucleocapsid  
protein (Omicron  
B1.1.529 Variant).**



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