

# Recombinant SARS-CoV-2 (Omicron B1.1.529 Variant) N Protein, Tag Free

**Cat. No.** N-250S    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | Recombinant SARS-CoV-2 (Omicron B1.1.529 Variant) N Protein without Tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | SARS-CoV-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is an enveloped, positive-sense, single-stranded RNA virus that causes coronavirus disease 2019 (COVID-19). Virus particles include the RNA genetic material and structural proteins needed for invasion of host cells. Once inside the cell the infecting RNA is used to encode structural proteins that make up virus particles, nonstructural proteins that direct virus assembly, transcription, replication and host control and accessory proteins whose function has not been determined.~ The structural proteins of SARS-CoV-2 include the envelope protein (E), spike or surface glycoprotein (S), membrane protein (M) and the nucleocapsid protein (N). The nucleocapsid phosphoprotein is a structural protein that binds to, protects the viral RNA genome and is involved in packaging the RNA into virus particles. The N protein has been suggested as an antiviral drug target. |
| <b>Form</b>             | Powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MSDNGPQNQRNALRITFGGPSDSTGSNQNGGARSKQRRPQGLPNNTASWFTALT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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QHGKEDLKFPARGQGVPIINTNSSPDDQIGYYRRATRRIRGGDGKMKDLSPRWYFYLL  
 GTGPEAGLPYGANKDGIWVATEGALNTPKDHIGTRNPANNAIIVLQLPQGTTLPKG  
 FYAEGSRGGSQASSRSSSRNSSRNSTPGSSKRTSPARMAGNGGDAALALLLD  
 RLNQLESKMSGKGQQQGGQTVTKKSAAEASKKPRQKRTATKAYNVTQAFGRRGP  
 EQTQGNFGDQELIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTYT  
 GAIKLDDKDPNFKDQVILLNKHIDAYKTFPTEPKKDKKKKADETQALPQRQKKQQT  
 VTLLPAADLDDFSKQLQQSMSSADSTQA

|                       |                                                                                                                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | Endotoxin level is less than 0.1 EU/μg of the protein, as determined by the LAL test.                                                                                                                                                                       |
| <b>Purity</b>         | > 90% as determined by SDS-PAGE analysis.                                                                                                                                                                                                                   |
| <b>Applications</b>   | SDS-PAGE                                                                                                                                                                                                                                                    |
| <b>Notes</b>          | For laboratory research only, not for drug, diagnostic or other use.                                                                                                                                                                                        |
| <b>Storage</b>        | Lyophilized protein should be stored at -20°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. |
| <b>Storage Buffer</b> | PBS (pH 7.4) and 0.5 M NaCl.                                                                                                                                                                                                                                |
| <b>Reconstitution</b> | It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely.             |

## GENE INFORMATION

**Gene Name** N nucleocapsid phosphoprotein [ Severe acute respiratory syndrome coronavirus 2 ]

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|                 |                                                                                       |
|-----------------|---------------------------------------------------------------------------------------|
| Official Symbol | N                                                                                     |
| Synonyms        | N; nucleocapsid phosphoprotein; nucleocapsid phosphoprotein; ORF9; structural protein |
| Gene ID         | 43740575                                                                              |
| Protein Refseq  | YP_009724397                                                                          |
| UniProt ID      | P0DTC9                                                                                |

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