

# Recombinant SARS-CoV N Protein, His-tagged

**Cat. No.** N-889S    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | Recombinant SARS-CoV-2 N-protein (Nucleoprotein, C-terminal 6×His-Tag) produced in <i>Nicotiana benthamiana</i> by Agrobacterium-mediated transient expression.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | SARS-CoV, Wuhan-Hu-1 (UniProtKB – P0DTC9 (NCAP_SARS2))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | <i>Nicotiana Benthamiana</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <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>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>   | 46.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | MSDNGPQNQRNAPRITFGGPSDSTGSNQNGERSGARSKQRRPQGLPNNTASWFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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ALTQHGKEDLKFPARGQGVPIINTNSSPDDQIGYYRRATRRIRGGDGKMKDLSRWYF  
 YYLGTGPEAGLPYGANKDGIWVATEGALNTPKDHIGTRNPANNAIVLQLPQGTTLP  
 KGFYAEGSRGGSQASSRSSSRNSSRNSTPGSSRGTSARMAGNGGDAALALL  
 LDRLNQLESKMSGKGQQQGGQTVTKKSAAEASKPRQKRTATKAYNVTQAFGR  
 GPEQTQGNFGDQELIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLT  
 YTGAIKLDDKDPNFKDQVILLNKHIDAYKTFPPTPKKDKKKKADETQALPQRQKKQ  
 QVTLLPAADLDDFSKQLQQSMSSADSTQAHHHHHH

**Purity** >90%

**Applications** SDS-PAGE, Western Blot, functional assays

**Storage** Lyophilized materials are stable for up to twelve months from date of receipt at -70 centigrade.  
 It is recommended that reconstituted protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Concentration** 1.59 mg/mL prior to lyophilization (analyzed by A280 measurement)

**Storage Buffer** 20 mM HEPES, 300 mM NaCl, pH 7.5, 175 mM Trehalose Dihydrate.

## GENE INFORMATION

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

**Official Symbol** N

**Synonyms** N; nucleocapsid phosphoprotein; ORF9; structural protein

**Gene ID** 43740575

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| Protein Refseq | YP_009724397 |
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| UniProt ID | P0DTC9 |
|------------|--------|

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