

## Recombinant SARS-CoV-2 N Protein

Cat. No. N-73S Lot. No. (See product label)

### SPECIFICATION

**Product Overview** SARS-CoV-2 N protein was produced in E. coli cells transformed with SARS-CoV-2 N protein gene. This product is sterile and does not contain any components of animal origin.

**Species** SARS-CoV-2

**Source** E.coli

**Description** 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.

**AA Sequence** SDNGPQNQRNAPRITFGGPSDSTGSNQNGERSGARSKQRRPQGLPNNTASWFTA  
LTQHGKEDLKFPRGQGVPIINTNSSPDDQIGYYRRATRRIRGGDGKMKDLSPRWYFY  
YLGTPPEAGLPYGANKDGIWVATEGALNTPKDHIGTRNPANNAIIVLQLPQGTTLPK

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GFYAEGSRGGSQASSRSSSRNSSRNSTPGSSRGTS PARMAGNGGDAALALLL  
 DRLNQLESKMSGKGQQQQGQTVTKKSAAEASKKPRQKRTATKAYNVTQAFGRRG  
 PEQTQGNFGDQELIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTYT  
 GAIKLDDKDPNFKDQVILLNKHIDAYKTFPPTEPKKDKKKKADETQALPQRQKKQQT  
 VTLLPAADLDDFSKQLQQSMSSADSTQA

**Purity** > 95% by SDS-PAGE

**Applications** Research in vaccine development

**Quality Control Test** Verified by Mass Spectrometry analysis.

**Notes** For research use only

**Storage** Avoid repeated freeze-thaw cycles. 12 months at -20 to -80 centigrade. 1 month at 2 to 8 centigrade.

**Concentration** 1 mg/mL

**Storage Buffer** Sterile filtered through a 0.2 micron filter in 50% glycerol, 200 mM NaCl, 5mM beta mercaptoethanol, 10 mM phosphate buffer pH7.4

## 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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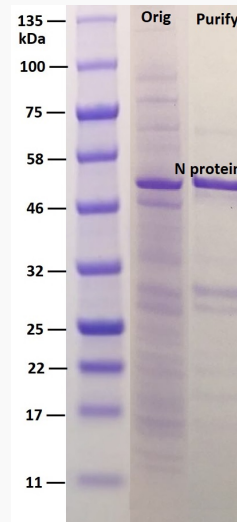
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Protein Refseq YP\_009724397

UniProt ID P0DTC9

SDS-PAGE



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