

# Active Recombinant SARS-CoV2 Nucleocapsid Protein, His-tagged

**Cat. No.** N-102S    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant nucleocapsid protein of the novel coronavirus (SARS-CoV2), a monomeric polypeptide of 428 (419+9) amino acids, with His at C-terminus was expressed in Sf21 cells and purified by an affinity column in combination of other chromatograph methods.
<b>Species</b>	SARS-CoV-2
<b>Source</b>	Insect Cells
<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>Bio-activity</b>	Recombinant nucleocapsid protein of SARS-CoV2 is suitable for the studies of

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

antibody generation and other related function assays.

**Molecular Mass** 52 kDa

**AA Sequence**

MSDNQPQNQRNAPRITFGGSPDSTGSNQNGERSGARSKQRRPQGLPNNTASWFT  
 ALTQHGKEDLKFPRGQGVPIINTNSSPDDQIGYYRRATRIRGGDGKMKDLSRWYF  
 YYLGTGPEAGLPYGANKDGIWVATEGALNTPKDHIGTRNPANNAIVLQLPQGTTLP  
 KGFYAEGSRGGSQASSRSSSRNSSRNSTPGSSRGTSPARMAGNGGDAALALLL  
 LDRLNQLESKMSGKGGQQGQTVTKKSAAEASKKPRQKRTATKAYNVTQAFGRR  
 GPEQTQGNFGDQELIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLT  
 YTGAIKLDDKDPNFKDQVILLNKHIDAYKTFPTEPKKDKKKKADETQALPQRQKKQ  
 QVTLLPAADLDDFSKQLQQSMSSADSTQAGGGHHHHHH\*

**Purity** ≥ 90%, as determined by SDS-PAGE.

**Storage** The protein sample can be stored under sterile conditions at 2-8 centigrade for one month or at -20 to -70 centigrade for three months without detectable loss of activity.

**Storage Buffer** Formulation 20 mM Tris-Cl, pH7.9, 20% glycerol, 100 mM NaCl, 1 mM DTT and 0.5 mM EDTA.

## GENE INFORMATION

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

**Official Symbol** N

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

**Gene ID** 43740575

 Tel: 1-631-559-9269 1-516-512-3133

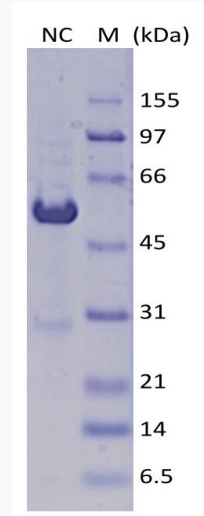
 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq

YP\_009724397

SDS-PAGE



 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA