

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	SDNGPQNQRNAPRITFGGSDSTGSNQNGERSGARSKQRRPQGLPNNTASWFTA LTQHGKEDLKFPRGQGVPIINTNSSPDDQIGYYRRATRRIRGGDGKMKDLSPRWYFY YLGTGPEAGLPYGANKDGIWVATEGALNTPKDHIGTRNPANNAIIVLQLPQGTTLPK

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

GFYAEGSRGGSQASSRSSSRNSSRNSTPGSSRGTS Parmagnggdaalalll
 DRLNQLESKMSGKGQQQGGQTVTKKSAAEASKKPRQKRTATKAYNVTQAFGRRG
 PEQTQGNFGDQELIRQGT DYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTYT
 GAIKLDDKDPNFKDQVILLNKHIDAYKTFPPTPKKDKKKKADETQALPQRQKKQQT
 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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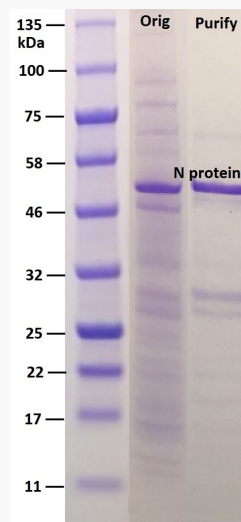
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Protein Refseq YP_009724397

UniProt ID P0DTC9

SDS-PAGE



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