

Active Recombinant SARS-CoV2 Nucleocapsid Protein, His-tagged

Cat. No. N-103S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant nucleocapsid protein of the novel coronavirus (SARS-CoV2) , a monomeric polypeptide of 425 (419+6) amino acids, with His at C-terminus was expressed in E. coli cells (BL21-DE3) and purified by an affinity column in combination of other chromatograph methods.
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.
Bio-activity	Recombinant nucleocapsid protein of SARS-CoV2 is suitable for the studies of

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antibody generation and other related function assays.

Molecular Mass	50 kDa
AA Sequence	MSDNGPQNQRNAPRITFGG PSDSTGSNQNGERSGARSKQRRPQGLPNNTASWFT ALTQHGKEDLKFP RGQGV PINTNSSPDDQIGYYRRATRRI RGGDGKMKDLSRWYF YYLGTGPEAGLPYGANKDGIWVATEGALNTPKDHIGTRNPANNAIVLQLPQGTTLP KGFYAEGSRGGSQASSRSSSRN SSRNSTPGSSRGTS PARMAGNGGDAALALLL LDRLNQLESKMSGKGQQQGGQTVTKKSAAEASKKPRQKRTATKAYNVTQAFGRR GPEQTQGNFGDQELIRQGT DYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLT YTGAIKLDDKDPNFKDQVILLNKHIDAYKTFPPTPKDKKKKKADETQALPQRQKKQ QVTVLLPAADLDDFSKQLQQSMSSADSTQAHHHHHH*
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

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Protein Refseq

YP_009724397

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