

Active Recombinant SARS-CoV-2 Nucleocapsid Protein, His/AVI-tagged

Cat. No. Nucleocapsid-001S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified Biotinylated recombinant SARS coronavirus 2 Nucleocapsid Protein (N-protein) with N-terminal HIS tag and site-specific Biotinylation on the C-terminal AVI tag was expressed in E.coli.
Species	SARS-CoV-2
Source	E.coli
Description	Nucleocapsid protein is a most abundant protein of coronavirus on the helical nucleocapsid of coronaviruses. N protein of SARS CoV-2 is a structural protein required for RNA synthesis, and has RNA chaperone activity that may be involved in template switch. N protein enters the host cell with the viral RNA to facilitate its replication and process the virus particle assembly and release. N protein is a highly immunogenic phosphoprotein also implicated in modulating cell signalling pathways. Coronavirus nucleocapsid proteins localize to the cytoplasm and the nucleolus, a subnuclear structure, in both virus-infected primary cells and in cells transfected with plasmids that express N protein.
Bio-activity	The biotin to protein ratio is 0.5-1 as determined by the HABA assay.
Molecular Mass	49.8 kDa
AA Sequence	MSDNGPQNQRNAPRITFGGPSDSTGSNQNGERSGARSKQRRPQGLPNNTASWFT ALTQHGKEDLKFPGRGQGVPIINTSSPDDQIGYYRRATRRIRGGDGKMKDLSRWYF

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YYLGTGPEAGLPYGANKDGIWVATEGALNTPKDHIGTRNPANNAIVLQLPQGTTLP
 KGFYAEGSRGGSQASSRSSSRNSSRNSTPGSSRGTSARMAGNGGDAALALL
 LDRLNQLESKMSGKGQQQGGQTVTKKSAAEASKKPRQKRTATKAYNVTQAFGR
 GPEQTQGNFGDQELIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLT
 YTGAIKLDDKDPNFKDQVILLNKHIDAYKTFPPTPKKDKKKKADETQALPQRQKKQ
 QTVTLLPAADLDDFSKQLQQSMSSADSTQA

Purity	> 90% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 µg/mL as determined by Bradford protein assay method.
Storage Buffer	25mM Tris, pH8.0, 250mM NaCl, 10% glycerol.
SDS-PAGE	