Recombinant SARS-CoV-2 N Protein

Cat. No. N-501S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV-2 N Protein without tag was expressed in HEK293.
Species	SARS-CoV-2
Source	HEK293
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.
Form	Liquid
Molecular Mass	47 kDa
AA Sequence	MSDNGPQNQRNAPRITFGGPSDSTGSNQNGERSGARSKQRRPQGLPNNTASWFT ALTQHGKEDLKFPRGQGVPINTNSSPDDQIGYYRRATRRIRGGDGKMKDLSPRWYF

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	YYLGTGPEAGLPYGANKDGIIWVATEGALNTPKDHIGTRNPANNAAIVLQLPQGTTLP KGFYAEGSRGGSQASSRSSSRSRNSSRNSTPGSSRGTSPARMAGNGGDAALALLL LDRLNQLESKMSGKGQQQQGQTVTKKSAAEASKKPRQKRTATKAYNVTQAFGRR GPEQTQGNFGDQELIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLT YTGAIKLDDKDPNFKDQVILLNKHIDAYKTFPPTEPKKDKKKKADETQALPQRQKKQ QTVTLLPAADLDDFSKQLQQSMSSADSTQA
Endotoxin	< 0.10 EU/μg of the protein by the LAL method
Purity	> 95% by SDS-PAGE
Applications	ELISA, WB
Storage	We recommended to store this recombinant protein as received at 2-8 centigrade for up to one month. For longer-term storage, aseptically aliquot in working volumes without diluting and store at -80 centigrade. Avoid Repeated Freeze Thaw Cycles.
Concentration	0.5 mg/mL
Storage Buffer	This recombinant protein was 0.2 μm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
Shipping	Blue Ice via Next Day Air

GENE INFORMATION

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

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Synonyms	SARS-CoV-2 N protein; Coronavirus NP; coronavirus Nucleocapsid; coronavirus Nucleoprotein; 2019-nCoV N protein Severe acute respiratory syndrome coronavirus 2 nucleocapsid; 100778-1; 100778-2; wild type; nucleocapsid phosphoprotein; ORF9; structural protein; N; nucleocapsid phosphoprotein
Gene ID	43740575
Protein Refseq	YP_009724397
SDS-PAGE	

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