

Recombinant COVID-19 N protein, MBP&His/Avi-tagged

Cat. No. N-204V Lot. No. (See product label)

SPECIFICATION

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|-------------------------|---|
| Product Overview | Recombinant COVID-19 N protein(YP_009724397.2)(1-419aa) was fused to MBP-tagged at N-terminus and 6xHis-Avi-tagged at C-terminus and expressed in E. coli. |
| Species | Sars-CoV-2 |
| Source | E.coli |
| ProteinLength | Full length protein |
| Description | <p>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.</p> |
| Form | If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization |

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is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Molecular Mass 93.4 kDa

AA Sequence

MSDNGPQNQRNAPRITFGGSPDSTGSNQNGERSGARSKQRRPQGLPNNTASWFT
 ALTQHGKEDLKFPARGGVPINTNSSPDDQIGYYRRATRRIRGGDGKMKDLSRWYF
 YYLGTGPEAGLPYGANKDGIWVATEGALNTPKDHIGTRNPANNAIVLQLPQGTTLP
 KGFYAEGSRGGSQASSRSSSRNSSRNSTPGSSRGTSPARMAGNGGDAALALLL
 LDRLNQLESKMSGKGGQQGQTVTKKSAAEASKKPRQKRTATKAYNVTQAFGRR
 GPEQTQGNFGDQELIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLT
 YTAAIKLDDKDPNFKDQVILLNKHIDAYKTFPTEPKKDKKKKADETQALPQRQKKQQ
 TVTLLPAADLDDFSKQLQQSMSSADSTQA

Purity Greater than 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Storage Store at -20°C upon receipt, aliquoting is necessary for multiple use. Avoid repeated freeze-thaw cycles.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name N

Official Symbol N

Synonyms Nucleocapsid protein, NC, protein N, N

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|----------------|----------------|
| Gene ID | 43740575 |
| Protein Refseq | YP_009724397.2 |
| UniProt ID | P0DTC9 |

SDS-PAGE of N-204V

