

Recombinant SARS-CoV N Protein, His-tagged

Cat. No. N-888S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV N-protein (Nucleoprotein, C-terminal 6×His-Tag) from produced in <i>Nicotiana benthamiana</i> by Agrobacterium-mediated transient expression.
Species	SARS-CoV
Source	<i>Nicotiana Benthamiana</i>
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	Lyophilized
Molecular Mass	46.9 kDa
AA Sequence	MSDNGPQSNQRSAPRITFGGPTDSTDNNQNGGRNGARPKQRRPQGLPNNTASWF

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TALTQHGKEELRFPRGQGVPIINTNSGPDDQIGYYRRATRVRGGDGKMKELSPRW
YFYYLGTGPEASLPYGANKEGIVWVATEGALNTPKDHIGTRNPNNNAATVLQLPQG
TTLPKGIFYAEGSRGGSQASSRSSSRSGNSRNSTPGSSRGNSPARMASGGGETA
LALLLDRLNQLESKVSGKGQQQQGQTVTKKSAAEASKKPRQKRTATKQYNVTQAF
GRRGPEQTQGNFGDQDLIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGT
WLTYHGAIKLDDKDPQFKDNVILLNKHIDAYKTFPPTPKDKKKKTDEAQPLPQRQ
KKQPTVTLLPAADMDDFSRQLQNSMSGASADSTQAHHHHHH

Purity >96%

Applications SDS-PAGE, Western Blot, functional assays

Storage Lyophilized materials are stable for up to twelve months from date of receipt at -70 centigrade.
It is recommended that reconstituted protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 1.60 mg/mL prior to lyophilization (analyzed by A280 measurement)

Storage Buffer 20 mM HEPES, 300 mM NaCl, pH 7.5, 175 mM Trehalose Dihydrate.

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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Protein Refseq	YP_009724397
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UniProt ID	P59595
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