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N
Recombinant SARS-CoV-2 (2019-nCoV) Nucleoprotein (His Tag)

Catalog No.	CSI99101	**Quantity:**	100 µg

Alternate Names: Nucleoprotein, Protein N, Nucleocapsid Protein, NC

Description: Coronaviruses are enveloped viruses with a positive-sense RNA genome and with a nucleocapsid of helical symmetry. Coronavirus nucleoproteins 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. Coronavirus N protein is required for coronavirus RNA synthesis, and has RNA chaperone activity that may be involved in template switch. Nucleocapsid protein is a most abundant protein of coronavirus. During virion assembly, N protein binds to viral RNA and leads to formation of the helical nucleocapsid. Nucleocapsid protein is a highly immunogenic phosphoprotein also implicated in viral genome replication and in modulating cell signaling pathways. Because of the conservation of N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a diagnostic tool.

UniProt ID: P0DTC9

Accession Number: YP_009724397.2

Protein Construction: A DNA sequence encoding the SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein (Met1-Ala419) was expressed with a polyhistidine tag at the C-terminus.

Source: E. coli

Formulation: Sterile-filtered 20 mM Tris-HCl, NaCl 150 mM, pH 8.0

Purity: ≥ 95 % as determined by SDS-PAGE.

Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C.
Store in working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

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