

## Product Datasheet

**Name:** Recombinant SARS-CoV-2 (2019-nCoV) Nucleocapsid (DsbC+His) Protein

**Construction:** Recombinant 2019-nCoV Nucleocapsid Protein is produced by our E.coli expression system and the target gene encoding 243-369aa is expressed with DsbC and His tag at the N-terminus.

Catalog No.	Unit	Usage	Buffer
bs-41409P	mg	Antigen	sterile PBS, pH7.4

**Host:** Escherichia coil

**MW:** 43 kD

**Format:** Liquid

**Concentration:** ≥0.5 mg/ml

**Purification:** ≥90% (SDS-PAGE)

**Application:** Recommended for sandwich immunoassays in ELISA and CLIA. Each laboratory should determine an optimum working titer for use in its particular application.

**Storage:** Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

**Background:** 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.

**Note:** *This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.*