SARS-COV-2 (2019-NCOV) NUCLEOCAPSID, N-HIS TAG

Cat.#: 11271
Product Name: SARS-CoV-2 (2019-NCoV) Nucleocapsid
Size : 10 µg, 50 µg and 100 µg
Synonyms: Nucleocapsid protein;P;rotein N
Target: Nucleocapsid
UNIPROT ID: P0DTC9
Description: "SARS-CoV-2 (2019-nCoV) Nucleocapsid
Background: Coronavirus contain most of nucleocapsid protein. Coronavirus nucleoproteins (N proteins) 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. The nucleolus is the site of ribosome biogenesis and sequesters cell cycle regulatory complexes. Two of the major components of the nucleolus are fibrillarin and nucleolin. These proteins are involved in nucleolar assembly and ribosome biogenesis and act as chaperones for the import of proteins into the nucleolus. Regarding of the conservation of N protein sequence and its strong immunogenicity, the N protein of coronavirus is a tool for diagnostic.
Species/Host: E.coli
Molecular Weight: The protein has a predicted molecular mass of 49.4 kDa after removal of the signal peptide.
Molecular Characterization: 6*His Tag Nucleocapsid protein(Met1-Ala419)
Purity: The purity of the protein is greater than 90% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.
Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

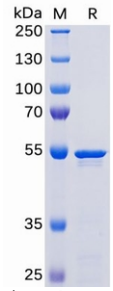

Figure 1. SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein, His Tag on SDS-PAGE under reducing condition.

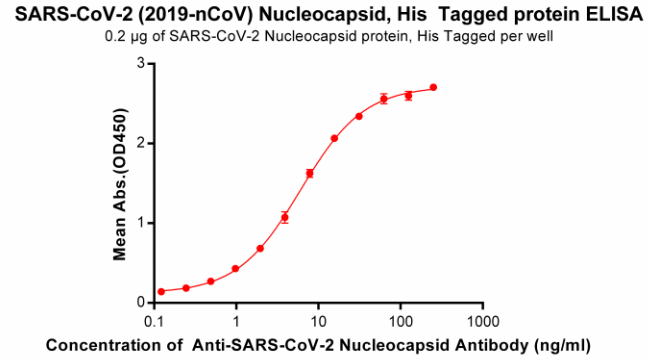

Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) SARS-CoV-2 (2019-nCoV) Nucleocapsid, His Tag protein (11271) can bind Anti-SARS-CoV-2 Nucleocapsid Antibody 28304], [getskuurl sku=28305 in a linear range of 0.122-15.625 ng/ml.