SARS-COV-2 (DELTA) NUCLEOCAPSID, C-HIS TAG

Cat.#: 11453

Product Name: SARS-CoV-2 (Delta) Nucleocapsid

Size : 10 µg, 50 µg and 100 µg

Synonyms: Nucleocapsid protein;P;rotein N;elta (B.1.617.2)

Target: Nucleocapsid

UNIPROT ID: P0DTC9

Description: "Recombinant SARS-CoV-2 Nucleocapsid (D63G

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: HEK293

Molecular Weight: The protein has a predicted molecular mass of 46.6 kDa after removal of the signal peptide. The apparent molecular mass of Nucleocapsid (D63G, R203M, D377Y)-His is approximately 55-70 kDa due to glycosylation.

Molecular Characterization: Nucleocapsid (D63G, R203M, D377Y)(Met1-Ala419) 6×His tag

Purity: The purity of the protein is greater than 85% 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.

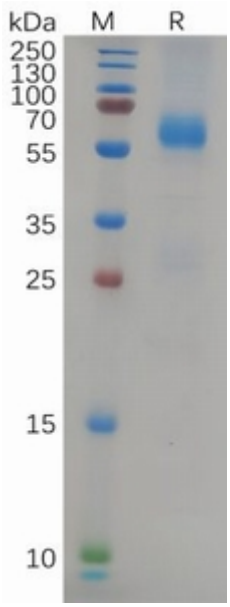

Figure 1. SARS-CoV-2 Nucleocapsid (D63G, R203M, D377Y) Protein, His Tag on SDS-PAGE under reducing condition.