

32-17073: SARS-CoV-2 (2019-nCoV) Nucleocapsid, His Tag

Alternative Name : Nucleocapsid protein, NP, Protein N

Description

Expression Host : E.coli

The protein has a predicted molecular mass of 49.4 kDa after removal of the signal peptide.

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 the conservation of N protein sequence and its strong immunogenicity, the N protein of coronavirus is a tool for diagnostic.

Product Info

Amount :	50 µg
Purification :	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Content :	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
Storage condition :	Store at -80°C for 12 months (Avoid repeated freezing and thawing)

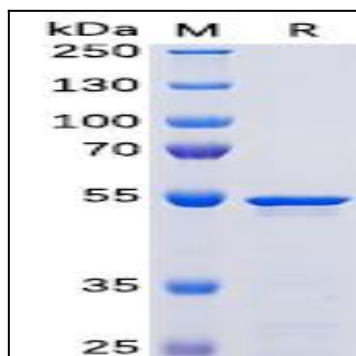


Figure 1. SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein, His Tag on SDS-PAGE under reducing condition.

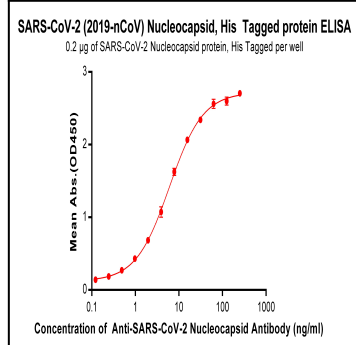


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) SARS-CoV-2 (2019-nCoV) Nucleocapsid, His Tag protein can bind Anti-SARS-CoV-2 Nucleocapsid Antibody(,) in a linear range of 0.122-15.625 ng/ml.