

## Product datasheet for **TP723996**

### SARS-CoV-2 N Protein SARS-CoV-2 Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	SARS-CoV-2 (2019-nCoV) Nucleocapsid, His Tag
Species:	SARS-CoV-2
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Nucleocapsid protein [Met1-Ala419]
Tag:	N-His
Predicted MW:	49.4 kDa
Purity:	> 95%
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose is added as protectants before lyophilization
Reconstitution Method:	Reconstitute with deionized water
Preparation:	Affinity purification
Applications:	ELISA
Storage:	Store the lyophilized protein at -20°C. After reconstitution, store the protein at -80°C for 12 months. Avoid repeated freezing and thawing.
Stability:	12 months from date of despatch
Locus ID:	43740575
Summary:	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.
Protein Families:	ELISA



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Product images:

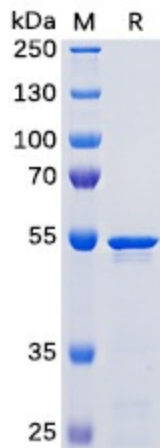


Figure 1. SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein, His Tag on SDS-PAGE under reducing condition.

SARS-CoV-2 (2019-nCoV) Nucleocapsid, His Tagged protein ELISA

0.2 µg of SARS-CoV-2 Nucleocapsid protein, His Tagged per well

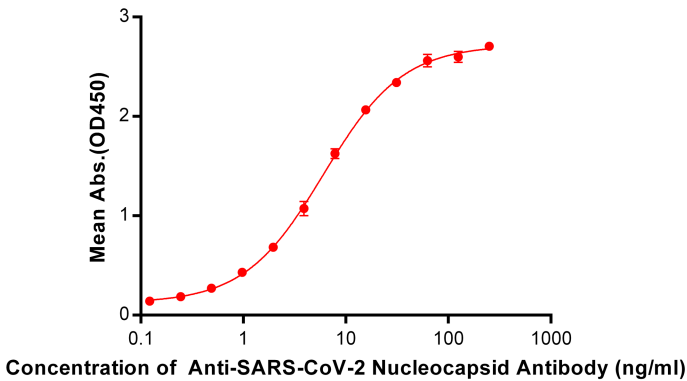


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) SARS-CoV-2 (2019-nCoV) Nucleocapsid, His Tag protein (TP723996) can bind Anti-SARS-CoV-2 Nucleocapsid Antibody([TA355165], [TA355172]) in a linear range of 0.122-15.625 ng/ml.