

Catalog Number: 230-30164

# Recombinant SARS-CoV-2 Nucleocapsid Protein

#### **Source**

Species SARS-CoV-2
 Accession Number QHD43423
 Expressed Region Met1-Ala419

• Synonyms Nucleocapsid Protein, N Protein

### **Preparation**

Expression System Human embryonic kidney 293 (HEK293) cells

• Tag C-terminal his-tag

Purification His-tag affinity purification by immobilized metal ion affinity chromatography (IMAC)

Purity >90%

Purity determined
 By SDS-PAGE under reducing conditions and visualized by Coomassie blue staining

Molecular Weight Recombinant protein product has a calculated molecular mass of ~47 kDa. Due to the abundant

glycosylation, it migrates as approximately  $^{\sim}55$  kDa major protein band in SDS-PAGE under DTT, beta-mercaptoethanol reducing conditions. The minor small protein bands (25-30 kDa) are likely

the cleaved products. See deglycosylation analysis image below.

## **Protein Specifications**

Format Liquid

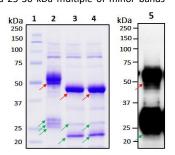
• Formulation Supplied as a 0.2 μm filtered solution in PBS (pH 7.4)

Concentration Lot specific (see the label on the vial), determined by BCA protein assay.

SDS-PAGE Image Deglycosylation analysis of purified recombinant proteins. Purified proteins were untreated (Lane 2)

or treated with Protein Deglycosylation Kit under native (*Lane 3*) or reducing (*Lane 4*) conditions. Deglycosylation treatment resulted in a mobility shift of the protein to produce one major band at the expected size (47 kDa), thus indicating that the untreated recombinant protein (*Lane 2*) was glycosylated. **Lane 1**: Protein standard ladder (kDa). **Lane 2**: Untreated protein under reducing conditions, shown one ~55 kDa major band (*red arrow*) and 25-30 kDa multiple of minor bands

(green arrows). This small bands are likely cleavage products. All bands were confirmed by western blotting (Lane 5). Other minor large bands (>80 kDa) may be the trace amount of copurified proteins from host cells. Lane 3: Treated protein with deglycosylation enzymes under native conditions, shown one 47 kDa major band (red arrow) and two minor 22~30 kDa bands (green arrows). Lane 4: Treated protein with deglycosylation enzymes under reducing conditions, shown one ~47 kDa major band (red arrow) and two minor 22~30 kDa bands (green arrows). Lane 5: Western botting analysis of Lane 1, shown two major reaction bands (red and green arrows).



### **Shipping**

The product is shipped with ice packs.

## **Storage/Stability**

Upon arrival, the protein may be stored for 2 weeks at 4  $^{\circ}$ C. For long term storage, it is recommended to store at -20  $^{\circ}$ C or -80  $^{\circ}$ C in appropriate aliquots. Avoid repeated freeze-thaw cycles.

This product is furnished for LABORATORY RESEARCH USE ONLY.

Not for diagnostic or therapeutic use.







