

# SARS-CoV-2 Nucleocapsid Protein (Native/Non-tagged)

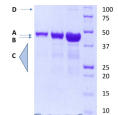
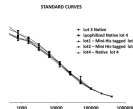
A purified, soluble recombinant SARS-CoV-2 nucleocapsid protein

## Sequence - SARS-CoV-2 Nucleocapsid protein (native)

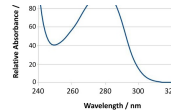
```
MSDNGPQNQRNAPRITFGGSPDSTGSNQNNGERSGARSKQRRPQGLPNNTASWFTALTQHG
KEDLKFRPQQGVPINTNSSPDDQIGYRRATRIRGGDGKMKDLSRWYFYLLGTGPEAG
LPYGANKDGIWVATEGALNTPKDHIGTRNPANNAIVLQLPQGTTLPKGFYAEGSRGGS
QASSRSSRSRNSRNSTPGSSRGTSPTARMAGNGGDAALALLLLDRLNQLESKMSGKQQQ
QQGQTVTKKSAEASAKKPRQKRTATKAYNVTQAFGRRGPEQTQGNFGDQELIRQGTDYKH
WPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTYTGAIKLDDKDPNFKDQVILLNKHIDAY
FTFPFPEKDKKKADETQALPQRQKQVILLFAADLDDPSRGLQDQMSADSTQA
```

Please see downloads section for PDF version

## Reproducibility of Recombinant Nucleocapsid Protein in ELISA



SDS-PAGE Analysis of NCP  
Samples of 1, 10 and 100 µg NCP analysed on reducing 10% SDS-PAGE.



## Category

Biological Materials  
Research Reagents/New  
Research Reagents

## Authors

Prof Jon Sayers

## Learn more



## SARS-CoV-2 Nucleocapsid Protein (Native/Non-tagged)

A purified, soluble recombinant SARS-CoV-2 nucleocapsid protein.

This protein represents the nucleocapsid protein from the original SARS-CoV-2 strain, first identified in Wuhan.

## Product Details (see spec sheet for more details)

- Host: E. coli
- Tag: None
- Purity: >95%, assessed by SDS-PAGE.
- Formulation: Aqueous solution flash frozen at -80 °C
- Quantities available: 1 mg, 10 mg & 100 mg. Multiples may be ordered.

For other pack sizes/larger quantities or questions regarding aliquoting please contact us.

Please select the correct licence to reflect the quantity being ordered.

## Sequence

```
MSDNGPQNQRNAPRITFGGSPDSTGSNQNNGERSGARSKQRRPQGLPNNTASWFTALTQHG
KEDLKFRPQQGVPINTNSSPDDQIGYRRATRIRGGDGKMKDLSRWYFYLLGTGPEAG
LPYGANKDGIWVATEGALNTPKDHIGTRNPANNAIVLQLPQGTTLPKGFYAEGSRGGS
QASSRSSRSRNSRNSTPGSSRGTSPTARMAGNGGDAALALLLLDRLNQLESKMSGKQQQ
QQGQTVTKKSAEASAKKPRQKRTATKAYNVTQAFGRRGPEQTQGNFGDQELIRQGTDYKH
WPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTYTGAIKLDDKDPNFKDQVILLNKHIDAY
```

KTFPPTPEPKKDKKKKADETQALPQRQKKQQTVLLPAADLDDFSKQLQQSMSSADSTQA

(Note: N-terminal Met is removed on processing in E. coli, so the product matches residues 2-419 of SARS-CoV-2 GenBank entry QHD43423.2.)

### **Background**

The coronavirus nucleocapsid (N) protein has a structural role, binding to the viral RNA and forming the nucleocapsid. The N protein is highly immunogenic and abundantly expressed during infection which makes it an important marker in diagnostic assays for COVID-19.

Recombinant nucleocapsid proteins are commonly used in viral quantification assays and in ELISAs for detection of human antibodies against coronavirus.

### **Ordering**

Particular attention should be paid when selecting the licence.

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A charge is added at checkout to cover packing and shipping costs. This will be £20 for UK orders and £50 for EU orders. The material will be packaged with dry ice and shipped by DHL.

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### **Keywords**

SARS-CoV-2, nucleocapsid, protein, coronavirus, COVID, COVID-19, 2019-ncov

### **Further information**

Further information on the research group may be found at:

<https://www.sheffield.ac.uk/medicine/people/iicd/jon-r-sayers>

<https://www.sheffield.ac.uk/news/nr/sheffield-coronavirus-antibody-research-1.893554>