

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

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

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

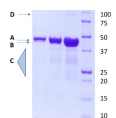
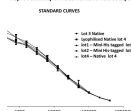
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LPYGANKDGIWVATEGALNTPKDHIGTRNPANNAIVLQLPQGTTLPKGFYAEGSRGGS
QASSRSSRSRNSRNSTPGSSRGTSPTARMAGNGGDAALALLLLDRLNQLESKMSGKQQ
QQGQTVTKKSAEASKKPRQRKRTATKAYNVTQAFGRRGPEQTQGNFGDQELIRQGTDYKH
WPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTYTGAIKLDDKDPNFKDQVILLNKHIDAY
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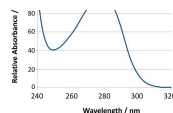
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Please see downloads section for PDF version

## Reproducibility of Recombinant Nucleocapsid Protein in ELISA



SDS-PAGE Analysis of NCP  
Samples of 1, 2, and 10 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

```

MSDNGPQNRNAPRITFGGSPDSTGNSNNGERSGARSKQRRPQGLPNNTASWFTALTQHG
KEDLKFRPQQGVPINTNSSPDDQIGYRRATRIRGGDGKMKDLSRWYFYLLGTGPEAG
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QQGQTVTKKSAEASKKPRQRKRTATKAYNVTQAFGRRGPEQTQGNFGDQELIRQGTDYKH
WPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTYTGAIKLDDKDPNFKDQVILLNKHIDAY

```

KTFPPTEPKKDKKKKADETQALPQRQKKQQTVLLPAADLDDFSKQLQQSMSSADSTQA

(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.

For deliveries outside the UK or EU please enquire for shipping costs.

Recipients are asked to provide details of their intended use for the material.

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**PLEASE NOTE:** The customer will be contacted by the courier to clear the shipment at customs and pay any customs or import duty. **Please provide the appropriate contact details, at the checkout stage, for the person responsible for making payment for customs charges and be sure to comply with courier enquiries in order to avoid shipment delays.**

### **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>