

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

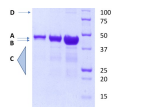
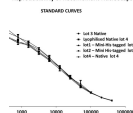
A purified, soluble recombinant SARS-CoV-2 nucleocapsid protein

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

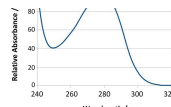
MSDNGPQNRNAPRITFGGSPDSTGSNQNGERSGARSKQRRPQGLPNNTASWFTALTQHG
KEDLKFRPGQGVPIINTNSSPDDQIGYYRRATRRIRGGDGKMKDLSRWYFYLLGTGPEAG
LPYGANKDGIWVATEGALNTPKDHIGTRNPANNAIVLQLPQGTTLPKGFYAEGSRGGS
QASSRSSRSRNSRNSTPGSSRGTSARMAGNGGDAALALLLDRLNQLESKMSGKGQQ
QQGQTVTKKSAEASKKPRQKRTATKAYNVTQAFGRRGPEQTQGNFGDQELIRQGTDYKH
WPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTYTGAIKLDDKDPNFKDQVILLNKHIDAY
RTFFPTFFKDKKKKADDTQALPQRQKQQTVILLFAADLDPSRGLQGSMSADSTQA

Please see downloads section for PDF version

Reproducibility of Recombinant Nucleocapsid Protein in ELISA



SDS-PAGE Analysis of NCP
Samples of 2, 5 and 10 µg NCP analysed on reducing 10% SDS-PAGE.
Protein bands stained with Coomassie Brilliant Blue G250.



Category

Biological Materials
Research Reagents/New
Research Reagents

Authors

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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

MSDNGPQNRNAPRITFGGSPDSTGSNQNGERSGARSKQRRPQGLPNNTASWFTALTQHG
KEDLKFRPGQGVPIINTNSSPDDQIGYYRRATRRIRGGDGKMKDLSRWYFYLLGTGPEAG
LPYGANKDGIWVATEGALNTPKDHIGTRNPANNAIVLQLPQGTTLPKGFYAEGSRGGS
QASSRSSRSRNSRNSTPGSSRGTSARMAGNGGDAALALLLDRLNQLESKMSGKGQQ
QQGQTVTKKSAEASKKPRQKRTATKAYNVTQAFGRRGPEQTQGNFGDQELIRQGTDYKH
WPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTYTGAIKLDDKDPNFKDQVILLNKHIDAY

KTFPPTPEPKDKKKKADETQALPQRQKKQQTVTLLPAADLDDFSKQLQQSMSSADSTQA

(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.

Delivery and checkout questions

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.

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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>