

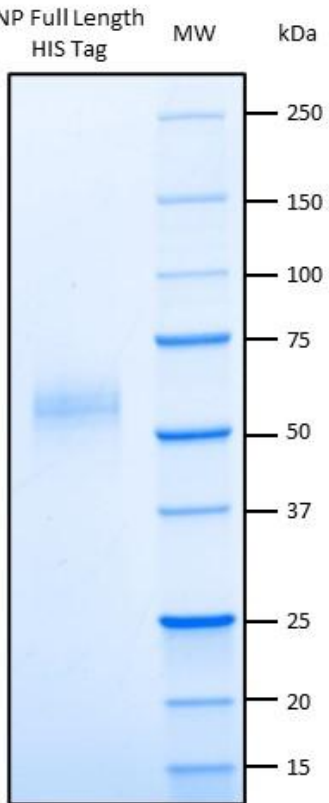
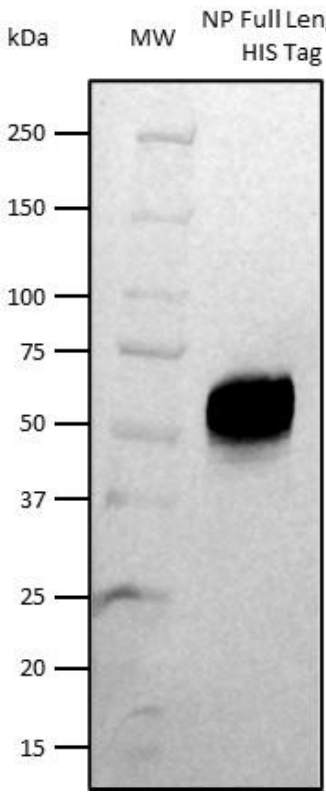
DESCRIPTION

<i>Description</i>	Recombinant Human Coronavirus SARS-CoV-2 Nucleoprotein (NP) NCBI Accession Number: MN908947
<i>Sequence</i>	Met1-Ala419
<i>Expression system</i>	HEK293 cells
<i>Tag</i>	HIS Tag C-Terminus
<i>Purification</i>	Affinity chromatography
<i>Extinction coefficient</i>	43890 M-1.cm-1 Abs 0.1% (=1 g/l) 0.943 assuming all pairs of Cys residues form cystines
<i>Predicted Molecular Weight</i>	46.5 kDa

SPECIFICATIONS

<i>SDS Page</i>	Approx. 50 kDa
<i>Concentration</i>	1 mg/ml
<i>Purity</i>	>95% by SDS PAGE
<i>Formulation</i>	PBS
<i>Activity</i>	Recognized by Covid-19 positive patients serum samples.
<i>Stability and Storage</i>	Store at -20°C. Avoid repeated freeze-thaw cycles

DATA

SDS-PAGE 4-15% under reducing conditions and visualized by Coomassie blue staining showing a band at approx. 50 kDa	Western Blot: NP HIS Tag detected with Covid-19 positive patient serum
 NP Full Length HIS Tag MW kDa 250 150 100 75 50 37 25 20 15	 kDa MW NP Full Length HIS Tag 250 150 100 75 50 37 25 20 15

SARS-CoV-2 Nucleoprotein

Nucleoprotein (N protein/ Nucleocapsid protein) is one of four structural proteins of Coronavirus (SARS-Cov, SARS-Cov-2, MERS amongst other). The N protein primary function is to package the viral SARS-Cov-2 RNA genome within the viral envelope to form the helical nucleocapsid.

N protein is a major immunogen and is highly expressed in infected cells at the early stage of infection.

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