

Nucleocapsid Protein (NP) of SARS-CoV-2

CATALOG NUMBER: SCV2-NP-050P, 50 µg, 1 mg

Introduction

The novel coronavirus (SARS-CoV-2), previously called 2019-nCoV, is a newly identified coronavirus causing the ongoing outbreak of atypical pneumonia in Wuhan China from late 2019.

The genome of SARS-CoV-2 has 89% nucleotide identity with bat SARS-like-CoVZXC21 and 82% with that of human SARS-CoV. The phylogenetic trees of their orf1a/b, Spike, Envelope, Membrane and Nucleocapsid protein also clustered closely with those of the bat, civet and human SARS coronaviruses. However, the external subdomain of Spike's receptor binding domain (RBD) of SARS-CoV-2 shares only 40% amino acid identity with other SARS-related coronaviruses.

Applications

Western blot standard, antibody ELISA, antigen, etc.

Description

Recombinant nucleocapsid protein (NP) of SARS-CoV-2 purified from *E.coli*

Viral Protein

Nucleocapsid protein (NP) (amino acid 1-419) of human SARS-CoV-2 (GenBank No. MN908947) with a C-terminal His-tag

Storage

Store at -20 °C; Stable for 6-months from the date of shipment when kept at 4 °C. Non-hazardous, no MSDS required.

Concentration

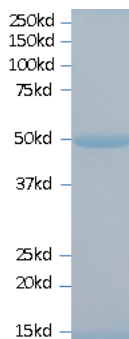
1 µg/µl in 50 mM Tris-HCl (pH8.0), 150 mM NaCl

Endotoxin Level

<1 EU per 1 µg of the protein by LAL test

Purity

≥ 95% (by SDS PAGE)



SDS-PAGE: purified recombinant nucleocapsid protein of SARS-CoV-2

Nucleocapsid Protein (aa 1-419)(SARS-CoV-2/COVID-19) SEQ:

MSDNGPQNQRNAPRITFFGGPSDSTGSNQNNGERSGARSKQRRPQGLPNNTASWFTALTQHGKEDLKFPRGQGVPIINTNSSPDDQIGYYRRATRRIRGGDG
KMKDLSPRWYFYLLGTGPEAGLPYGANKDGI IIVVATEGALNTPKDHIGTRNPANNAIIVLQLPQGTTLPKGFYAEGSRGGSQASSRSSSRNRNSSRNST
PGSSRGTS PARMAGNGGDAALALLLDRLNQLLESKMSGKQQQQQQT VTKKSAEASKKPRQKRTATKAYNVTQAFGRRGPEQTQGNFGDQELIRQGTD
YKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTYTGAIKLDDKDPNFKDQVILLNKHIDAYKTFPPTEPKDKKKKADETQALPQRQKKQQT VTTLLP
AADLDDFSKQLQQSMSSADSTQA