SARS-CoV-2 (2019-nCoV) /COVID-19, Nucleocapsid Protein (His tag)

Catalog Number: ZD20200001

ZoonBio

General Information

Gene Name Synonym:

coronavirus NP; coronavirus Nucleocapsid; coronavirus Nucleoprotein; cov np; ncov NP; NCP-CoV Nucleocapsid; novel coronavirus NP; novel coronavirus Nucleocapsid; novel coronavirus Nucleoprotein; np; nucleocapsid; Nucleoprotein

Protein Construction:

A DNA sequence encoding the NCP-CoV(2019-nCoV)/COVID-19 Nucleocapsid Protein was expressed with a polyhistidine tag at the N-terminus.

Protein Description：

Coronaviruses are enveloped viruses with a positive-sense RNA genome and with a nucleocapsid of helical symmetry. Nucleocapsid protein is a most abundant protein of coronavirus. During virion assembly, N protein binds to viral RNA and leads to formation of the helical nucleocapsid. Because of the conservation of N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a diagnostic tool.

Source: 2019-nCoV, COVID-19

Expression Host: *Escherichia Coli.*

QC Testing

Purity: > 90 % as determined by SDS-PAGE.

Predicted N terminal: Met

Molecular Mass: The recombinant NCP-CoV(2019-nCoV)/COVID-19 Nucleocapsid Protein (His tag) consists of 425 amino acids and predicts a molecular 46.44 kDa.

Formulation: Liquid in 0.5 mg/ml in 20 mM Tris-HCl，0.15 M NaCl pH 8.0

SDS-PAGE analysis of expression
M：Protein Marker Lane1：BSA（5ug）
Lane 2：2019nCoV-N (2ug)
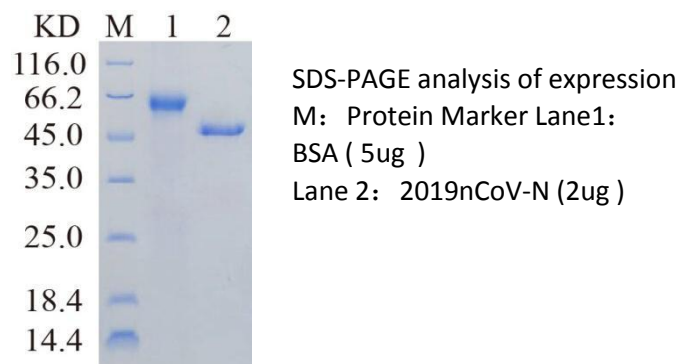
Usage Guide Stability & Storage: Samples are stable for twelve months from date of receipt at -20℃ to -80℃. Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Reconstitution: Detailed reconstitution instructions are sent along with the products.

Sequence：

MHHHHHHSDNGPQNQRNAPRITFGGPSDSTGSNQNGE

RSGARSKQRRPQGLPNNTASWFTALTQHGKEDLKFPRGQ

GVPINTNSSPDDQIGYYRRATRRIRGGDGKMKDLSPRWYF

YYLGTGPEAGLPYGANKDGIIWVATEGALNTPKDHIGTRN

PANNAAIVLQLPQGTTLPKGFYAEGSRGGSQASSRSSSRSR

NSSRNSTPGSSRGTSPARMAGNGGDAALALLLLDRLNQLE

SKMSGKGQQQQGQTVTKKSAAEASKKPRQKRTATKAYN

VTQAFGRRGPEQTQGNFGDQELIRQGTDYKHWPQIAQF

APSASAFFGMSRIGMEVTPSGTWLTYTGAIKLDDKDSNFK

DQVILLNKHIDAYKTFPPTEPKKDKKKKADETQALPQRQKK

QQTVTLLPAADLDDFSKQLQQSMSSADSTQA