

Recombinant SARS-CoV-2 Nucleocapsid (P67S) Protein, His-tagged

Cat. No. N-10S Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant SARS-CoV-2 Nucleocapsid (YP_009724397.2, with mutation P67S) (Met1-Ala419) was expressed in E. coli with a polyhistidine tag at the N-terminus.

Species

SARS-CoV-2

Source

E.coli

ProteinLength

1-419

Description

Coronaviruses are enveloped viruses with a positive-sense RNA genome and with a nucleocapsid of helical symmetry. Coronavirus nucleoproteins localize to the cytoplasm and the nucleolus, a subnuclear structure, in both virus-infected primary cells and in cells transfected with plasmids that express N protein. The coronavirus N protein is required for coronavirus RNA synthesis and has RNA chaperone activity that may be involved in template switch. Nucleocapsid protein is the most abundant protein of coronavirus. During virion assembly, N protein binds to viral RNA and leads to the formation of the helical nucleocapsid. Nucleocapsid protein is a highly immunogenic phosphoprotein also implicated in viral genome replication and in modulating cell signaling pathways. Because of the conservation of the N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a diagnostic tool.

Predicted N Terminal

Met

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Molecular Mass	46.6 kDa (426aa)
Purity	> 90 % by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Lyophilized from sterile 50 mM PB, 500 mM NaCl, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01 % Tween-80 are added as protectants before lyophilization.
Shipping	At ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	N nucleocapsid phosphoprotein [Severe acute respiratory syndrome coronavirus 2]
Official Symbol	N
Synonyms	N; nucleocapsid phosphoprotein; nucleocapsid phosphoprotein; ORF9; structural protein
Gene ID	43740575
mRNA Refseq	MN908947
Protein Refseq	YP_009724397

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SDS-PAGE