

Recombinant SARS-CoV-2 Nucleocapsid phosphoprotein, His-tagged

Cat. No. N-129V Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV-2 Nucleocapsid phosphoprotein (1-419aa) was fused to His-tag at C-terminus and expressed and purified from E.coli.
Species	SARS-CoV-2
Source	E.coli
ProteinLength	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. Coronavirus N protein is required for coronavirus RNA synthesis, and has RNA chaperone activity that may be involved in template switch. 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. Nucleocapsid protein is a highly immunogenic phosphoprotein also implicated in viral genome replication and in modulating cell signaling pathways. Because of the conservation of N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a diagnostic tool.
Form	Liquid. 25mM Tris base, 10mM K ₂ CO ₃ .

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Molecular Mass	48 kDa
Purity	95% purity (10% SDS-PAGE, coomassie blue staining).
Storage	-20 centigrade.
Concentration	2.4 mg/ml
Shipping	Dry Ice.
Warning	Avoid multiple freeze-thaw cycles. For Research Use Only.
GENE INFORMATION	
Gene Name	N
Official Symbol	N
Synonyms	GU280_gp10
Gene ID	43740575
Protein Refseq	YP_009724397.2
SDS-PAGE of N-129V	Coomassie-stained SDS-PAGE showing purified SARS-CoV-2 nucleoprotein.

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