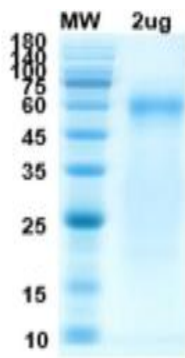


N

Recombinant SARS-CoV-2 (2019-nCoV) Nucleocapsid Protein (His Tag)

Catalog No.	CSI99105	Quantity:	100 µg
Alternate Names:	Nucleoprotein, Protein N, Nucleocapsid Protein, NC		
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.		
UniProt ID:	P0DTC9		
Accession Number:	QHD43423.2		
Protein Construction:	A DNA sequence encoding the SARS-CoV-2 (2019-nCoV) Nucleocapsid protein Ser2-Ala419 was expressed with a C-terminal His tag.		
Source:	Mammalian cells		
Formulation:	Lyophilized from sterile PBS, pH 7.5		
Molecular Weight:	47.70 kDa, predicted		
Purity:	> 90 % as determined by SDS-PAGE.		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		
Storage & Stability:	Stable for up to 1 year from date of receipt at -20°C to -80°C. After reconstitution, stable for 1 week at 2-8°C, or store working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		



SDS-PAGE Image

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