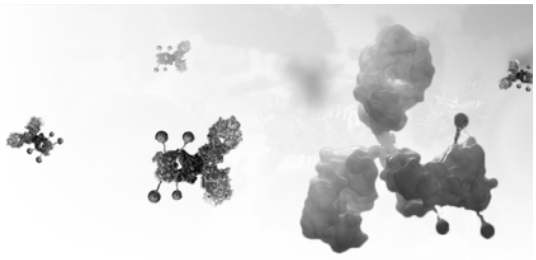

Biotinylated Recombinant SARS-CoV-2 Nucleocapsid protein [His,Avi] (DAGC223)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Biotinylated SARS-CoV-2 Nucleocapsid protein, His,Avitag is expressed from E.coli cells. It contains AA Met 1 - Ala 419 (Accession # QHO62115.1). This protein carries a polyhistidine tag at the N-terminus, followed by an Avi tag.
Species	SARS-CoV-2
Purity	>90% as determined by SDS-PAGE.
Conjugate	His, Avi
Applications	SDS-PAGE, ELISA
Predicted N terminal	Met
Molecular Weight	The protein has a calculated MW of 51.1 kDa. The protein migrates as 53-57 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Format	Lyophilized
Size	25 µg, 200 µg
Buffer	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, Arginine, pH7.5. Normally trehalose is added as protectant before lyophilization.
Preservative	None
Storage	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at:

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-20°C to -70°C for 12 months in lyophilized state;
-70°C for 3 months under sterile conditions after reconstitution.

BACKGROUND

Introduction	Nucleocapsid protein is a most abundant protein of coronavirus. Nucleocapsid protein is a highly immunogenic phosphoprotein also implicated in viral genome replication and in modulating cell signaling pathways. While screening for ADP-ribosylated proteins during coronavirus (CoV) infection, we identified as the viral nucleocapsid (N) protein. Novel post-translation modification of the CoV N protein that may play a regulatory role for this important structural protein. The array of diverse functional activities accommodated in the hantaviral N protein goes far beyond to be a static structural protein and makes it an interesting target in the development of antiviral therapeutics. Because of the conservation of N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a diagnostic tool.
Keywords	SARS-CoV-2 NP; SARS-CoV-2 Nucleoprotein; SARS-CoV-2; SARS-CoV-2 Nucleocapsid protein

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