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**Recombinant SARS-CoV-2 Omicron Variant B.1.1.529 Nucleocapsid (N) Protein****Source**

<b>Species</b>	SARS-CoV-2, Omicron Variant B.1.1.529
<b>Accession Number</b>	QHD43423
<b>Gene Symbol</b>	N
<b>Expressed Region</b>	Met1-Ala419, containing 4 deletions (P13L, E31del, R32del, and S33del) and 2 mutations (R203K, G204R).
<b>Synonyms</b>	Nucleocapsid Protein, N Protein

**Preparation**

<b>Expression System</b>	Human embryonic kidney 293 (HEK293) cells
<b>Tag</b>	C-terminal His-tag
<b>Purification</b>	His-tag affinity purification by immobilized metal ion affinity chromatography (IMAC)
<b>Purity</b>	>90%
<b>Purity Determined By</b>	SDS-PAGE under reducing conditions and visualized by Coomassie blue staining
<b>Molecular Weight</b>	Recombinant protein product has a calculated molecular mass of 47 kDa. Due to the abundant glycosylation, it migrates as approximately 55 kDa major protein band in SDS-PAGE under DTT, beta-mercaptoethanol reducing conditions. The minor small protein bands (25-30 kDa) likely the cleaved products. See deglycosylation analysis image below.

**Protein Specifications**

<b>Format</b>	Liquid
<b>Formulation</b>	Supplied as a 0.2 um filtered solution in PBS (pH 7.4)
<b>Concentration</b>	Lot specific (see the label on the vial), determined by BCA protein assay
<b>Endotoxin Level</b>	0.5 EU per ?g of the protein as determined by the LAL method
<b>Recommended Applications</b>	Functional Assay, Protein-protein Interaction, Post-translational Modifications, ELISA, EIA, Western Blotting, Dot Blotting, Immunoprecipitation, Protein Array, etc.

## SDS-PAGE Image

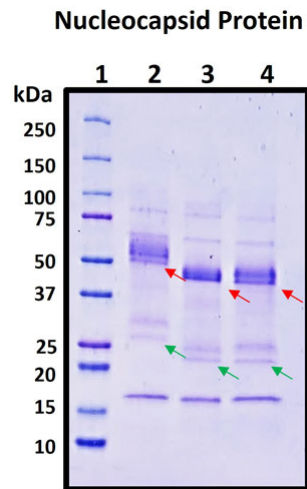


Figure 1. Deglycosylation analysis of purified recombinant proteins. The same amount of purified proteins were untreated (Lane 2) or treated with protein deglycosylation enzymes under native (Lane 3) or reducing (Lane 4) conditions. Deglycosylation treatment resulted in a mobility shift of the protein to produce one reduced band at the expected size, thus indicating that the untreated recombinant protein (Lane 2) was glycosylated.

Lane 1: protein standard ladder (kDa).

Lane 2: untreated protein.

Lane 3: treated protein with deglycosylation enzymes under native conditions.

Lane 4: treated protein with deglycosylation enzymes under denature conditions.

## Shipping

Ice packs

## Storage/Stability

Upon arrival, the protein may be stored for 2 weeks at 4 °C. For long term storage, it is recommended to store at -20 °C or -80 °C in appropriate aliquots. Avoid repeated freeze-thaw cycles.

This product is furnished for LABORATORY RESEARCH USE ONLY.

Not for diagnostic or therapeutic use.