

Recombinant SARS-CoV-2 Nucleocapsid Protein, Biotinylated

Source

Species	SARS-CoV-2
Accession Number	QHD43423
Expressed Region	Met1-Ala419
Synonyms	Nucleocapsid Protein, N Protein

Preparation

Expression System	Human embryonic kidney 293 (HEK293) cells
Tag	C-terminal his-tag. The primary amino groups (-NH ₂) at the N-terminus and the side chains of lysine (K) residues were biotin-conjugated using the standard chemical labeling method.
Purification	His-tag affinity purification by immobilized metal ion affinity chromatography (IMAC)
Purity	>90%
Purity Determined By	SDS-PAGE under reducing conditions and visualized by Coomassie blue staining
Molecular Weight	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

Format	Supplied as a 0.2 um filtered solution in PBS (pH 7.4)
Formulation	Lot specific (see the label on the vial), determined by BCA protein assay
Recommended Applications	Lateral flow, indirect ELISA, sandwich ELISA, glycosylation analysis, antibody generation, hybridoma screening, western blotting, biotin/dye/bead conjugation, binder selection, crystallization, and vaccine development.

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.