

SARS-COV-2 BQ.1/BQ.1.1 (Omicron) Nucleocapsid Recombinant Protein | NP-CoV recombinant protein

SARS-COV-2 BQ.1/BQ.1.1 (Omicron) Nucleocapsid Protein (His Tag)(HPLC-verified)

CATALOG # AAA259329	HOST E coli	REACTIVITY SARS-CoV-2
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PRODUCT SYNONYMS

SARS-COV-2 BQ.1/BQ.1.1 (Omicron) Nucleocapsid; SARS-COV-2 BQ.1/BQ.1.1 (Omicron) Nucleocapsid Protein (His Tag)(HPLC-verified); NP-CoV recombinant protein

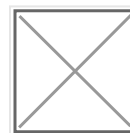
PRODUCT SPECIFICATIONS

Host	E coli
Reactivity	SARS-CoV-2
Purity/Purification	> 90% as determined by SDS-PAGE. > 95% as determined by SEC-HPLC.
Form/Format	Lyophilized from sterile 50mM PB, 500mM NaCl, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence	Met1-Ala41 9
Tag	N-His
Predicted N Terminal	Met
Endotoxin	< 1.0 EU perug protein as determined by the LAL method.
Protein Construction	A DNA sequence encoding the SARS-CoV-2 (BQ.1/BQ.1.1) Nucleocapsid (YP_009724397.2, with mutation P13L, E31del, R32del, S33del, E136D, R203K, G204R, S413R)(Met1-Ala419) was expressed with a polyhistidine tag at the N-terminus. The mutations were identified in the SARS-CoV-2 variant (known as variant BQ.1/BQ.1.1).
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for NP-CoV recombinant protein	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. The coronavirus N protein is required for coronavirus RNA synthesis and has RNA chaperone activity that may be involved in template switch. Nucleocapsid protein is the most abundant protein of coronavirus. During virion assembly, N protein binds to viral RNA and leads to the 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 the N protein sequence and its strong immunogenicity, the N protein of coronavirus is chosen as a test tool.
References	1.Va. Boheeme. S. e. al. (2012),MBio. 3(6):e00473-12. Bish. H. e. al.. 2004,Pro. Nat. Aca. Sci. 10. (17). 6641-6. L. W. e. al.. 2005,Science.30. (5742). 1864-8.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1798174255
NCBI Accession #	YP_009724397.2
NCBI GenBank Nucleotide #	YP_009724397.2
Molecular Weight	47.08 kDa
NCBI Official Full Name	nucleocapsid phosphoprotein

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/sars-cov-2-bq-1/bq-1-1-omicron-nucleocapsid-recombinant-protein-e-coli/259329>