

Active Recombinant COVID-19 N protein(BA.2*&BA.3*/Omicron), His-tagged

Cat. No. N-729V Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant COVID-19 N protein(BA.2*&BA.3*/Omicron)(Met 1 - Ala 419)(Accession # QHO62115.1(P13L, ERS31-33del, R203K, G204R, S413R)), fused with His tag at the C-terminus, was expressed in HEK293.
Species	Sars-CoV-2
Source	HEK293
ProteinLength	Met 1 - Ala 419
Form	Lyophilized from 0.22 µm filtered solution in PBS, 0.2M Arginine, pH7.4. Normally trehalose is added as protectant before lyophilization.
Bio-activity	Immobilized SARS-CoV-2 Nucleocapsid protein, His Tag (BA.2*&BA.3*/Omicron) at 1 µg/mL (100 µL/well) can bind Anti-SARS-CoV-2 Nucleocapsid Antibody, Human IgG1 with a linear range of 0.1-2 ng/mL.
Molecular Mass	The protein has a calculated MW of 47.1 kDa. The protein migrates as 30-35 kDa and 60-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>90% as determined by SDS-PAGE.

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Storage	This product is stable after storage at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
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Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
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GENE INFORMATION

Gene Name	N nucleocapsid phosphoprotein [Severe acute respiratory syndrome coronavirus 2]
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Official Symbol	N
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Synonyms	coronavirus NP Protein, 2019-nCoV; coronavirus Nucleocapsid Protein, 2019-nCoV; coronavirus Nucleoprotein Protein, 2019-nCoV; cov np Protein, 2019-nCoV; ncov NP Protein, 2019-nCoV; NCP-CoV Nucleocapsid Protein, 2019-nCoV; novel coronavirus NP Protein, 2019-nCoV; novel coronavirus Nucleocapsid Protein, 2019-nCoV; novel coronavirus Nucleoprotein Protein, 2019-nCoV; np Protein, 2019-nCoV; nucleocapsid Protein, 2019-nCoV; Nucleoprotein Protein, 2019-nCoV
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Gene ID	43740575
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Protein Refseq	YP_009724397.2
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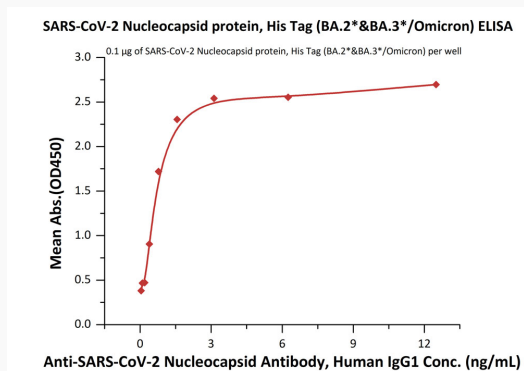
UniProt ID	P0DTC9
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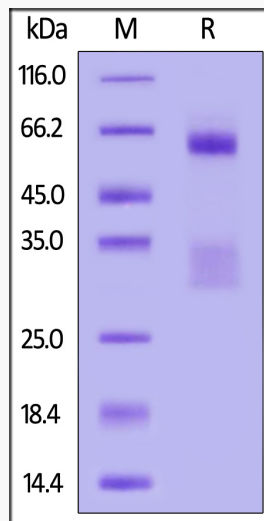
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Bioactivity-ELISA



SDS-PAGE



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