

Recombinant HCoV-NL63 Spike Protein, His-tagged

Cat. No. Spike-352V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HCoV-NL63 S1 protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Cys 19 - Val 717 (Accession # Q6Q1S2-1).
Species	HCoV-NL63
Source	HEK293
ProteinLength	Cys 19 - Val 717
Description	It's been reported that Coronavirus can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 79.5 kDa. The protein migrates as 120-140 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

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:

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

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.

GENE INFORMATION

Gene Name [HCNV63gp2 spike protein \[Human coronavirus NL63 \]](#)

Official Symbol [HCNV63gp2](#)

Synonyms Spike, S1 protein, Spike glycoprotein Subunit1, S glycoprotein Subunit1, Spike protein S1, COVID-19

Gene ID [2943499](#)

Protein Refseq [YP_003767.1](#)

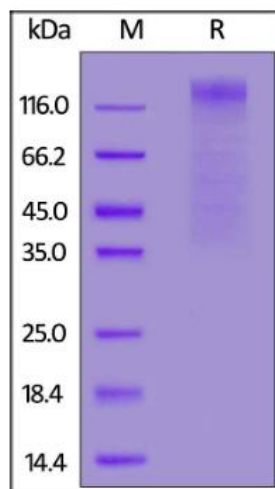
UniProt ID [Q6Q1S2](#)

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**SDS-PAGE of Spike-
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