

## Recombinant 2019-nCoV Spike S1(HV69-70del, N501Y, D614G) Protein, His-tagged

**Cat. No.** Spike-045V    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant 2019-nCoV Spike S1(HV69-70del, N501Y, D614G) Protein(YP_009724390.1)(Val 16 - Arg 685), fused to His Tag, is expressed from human 293 cells. It contains AA Val 16 - Arg 685 (Accession # QHD43416.1(HV69-70del, N501Y, D614G)).
<b>Species</b>	Sars-Cov-2
<b>Source</b>	HEK293
<b>ProteinLength</b>	Val 16 - Arg 685
<b>Description</b>	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.
<b>Form</b>	PBS
<b>Molecular Mass</b>	The protein has a calculated MW of 76.7 kDa.
<b>Storage</b>	For long term storage, the product should be stored at lyophilized state at -20°C or

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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** [S surface glycoprotein \[ Severe acute respiratory syndrome coronavirus 2 \]](#)

**Official Symbol** [S](#)

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

**Gene ID** [43740568](#)

**Protein Refseq** [YP\\_009724390.1](#)

**UniProt ID** [P0DTC2](#)

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