

## Active Recombinant COVID-19 Spike S1 protein (HV69-70del, Y144del, N501Y, A570D, D614G, P681H), His-tagged

Cat. No. Spike-4882V Lot. No. (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant COVID-19 protein (HV69-70del, Y144del, N501Y, A570D, D614G, P681H)(Val 16 - Arg 685), fused with His tag, was expressed in HEK293.   |
| <b>Species</b>          | Sars-CoV-2   |
| <b>Source</b>           | HEK293   |
| <b>ProteinLength</b>    | Val 16 - Arg 685   |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.   |
| <b>Bio-activity</b>     | Immobilized SARS-CoV-2 S1, His Tag at 2 µg/mL (100 µL/well) can bind Human ACE2, Fc Tag with a linear range of 0.2-2 ng/mL. Immobilized Human ACE2, Fc Tag at 1 µg/mL (100 µL/well) can bind SARS-CoV-2 S1, His Tag with a linear range of 0.02-0.313 µg/mL. |
| <b>Molecular Mass</b>   | This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 76.6 kDa. The protein migrates as 100-140 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.   |
| <b>Endotoxin</b>        | Less than 1.0 EU per µg by the LAL method.   |
| <b>Purity</b>           | >90% as determined by SDS-PAGE.  |

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**Storage** For long term, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after 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** [Spike](#)

**Synonyms** Spike; S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1; COVID-19 Omicron

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

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

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

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