

## Active Recombinant COVID-19 Spike RBD protein(BA.2.12.1/Omicron), His-tagged

**Cat. No.** Spike-720V    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant COVID-19 Spike RBD protein(BA.2.12.1/Omicron)(Arg 319 - Lys 537)(Accession # QHD43416.1(G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452Q, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H)), fused with His tag at the C-terminus, was expressed in HEK293. |
| <b>Species</b>          | Sars-CoV-2                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | Arg 319 - Lys 537                                                                                                                                                                                                                                                                           |
| <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 Spike RBD, His Tag (BA.2.12.1/Omicron) at 1 µg/mL (100 µL/well) can bind Human ACE2, Fc Tag with a linear range of 0.4-13 ng/mL.                                                                                                                                     |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 26.7 kDa. The protein migrates as 34-37 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>           | >95% as determined by SDS-PAGE.                                                                                                                                                                                                                                                             |

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|                |                                                                                                                                                                                    |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b> | <p>This product is stable after storage at:</p> <p>-20°C to -70°C for 12 months in lyophilized state;</p> <p>-70°C for 3 months under sterile conditions after reconstitution.</p> |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                       |                                                                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reconstitution</b> | <p>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.</p> |
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## GENE INFORMATION

**Gene Name** S surface glycoprotein [ Severe acute respiratory syndrome coronavirus 2 ]

**Official Symbol** Spike

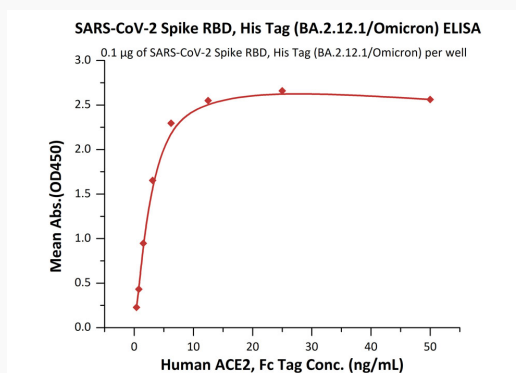
**Synonyms** Spike; S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1; COVID-19 Omicron

**Gene ID** 43740568

**Protein Refseq** YP\_009724390.1

**UniProt ID** P0DTC2

## Bioactivity-ELISA

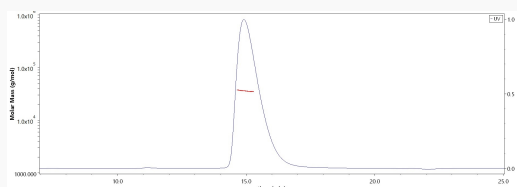


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## SEC-MALS



## SDS-PAGE

