

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

**Cat. No.** Spike-722V    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant COVID-19 Spike Trimer protein(BA.2.12.1/Omicron)(Val 16 - Pro 1213)(Accession # QHD43416.1(T19I, LPP24-26del, A27S, G142D, V213G, G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452Q, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H, S704L, N764K, D796Y, Q954H, N969K, R683A, R685A, F817P, A892P, A899P, A942P, K986P, V987P)), 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>    | Val 16 - Pro 1213                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <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 Trimer, 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 0.1-8 ng/mL.                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 138.1 kDa. The protein migrates as 160-190 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.                                                                                                                                                                                                                                                                                                              |
| <b>Endotoxin</b>        | Less than 1.0 EU per                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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|                       |                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | µg by the LAL method.                                                                                                                                                         |
| <b>Purity</b>         | >95% as determined by SDS-PAGE.<br>>90% as determined by SEC-MALS.                                                                                                            |
| <b>Storage</b>        | This product is stable after storage at:<br>-20°C to -70°C for 12 months in lyophilized state;<br>-70°C for 3 months under sterile conditions after reconstitution.           |
| <b>Reconstitution</b> | 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

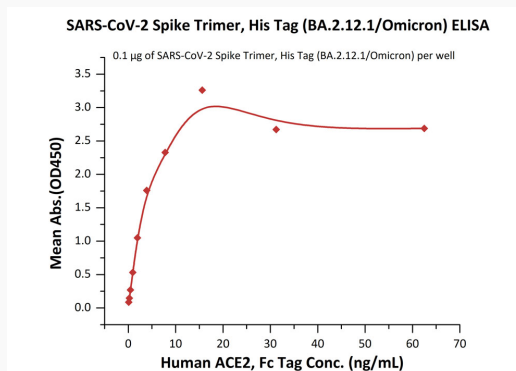
|                        |                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | S surface glycoprotein [ Severe acute respiratory syndrome coronavirus 2 ]                                  |
| <b>Official Symbol</b> | Spike                                                                                                       |
| <b>Synonyms</b>        | Spike; S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1; COVID-19 Omicron |
| <b>Gene ID</b>         | 43740568                                                                                                    |
| <b>Protein Refseq</b>  | YP_009724390.1                                                                                              |
| <b>UniProt ID</b>      | P0DTC2                                                                                                      |

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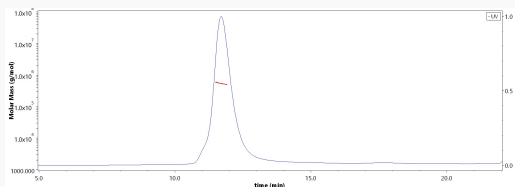
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## Bioactivity-ELISA



## SEC-MALS



## SDS-PAGE

