

# Recombinant SARS-COV-2 Spike S1 (Omicron BA.2.12.1) protein, His-tagged

**Cat. No.** Spike-1596V    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant SARS-COV-2 Spike S1 (Omicron BA.2.12.1) protein(QHD43416.1)(Gln14-Arg683(T19I, L24S, PPA25-27 del, G142D, V213G, G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452Q, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H)), fused with C-terminal His tag, was expressed in HEK293. |
| <b>Species</b>          | SARS-COV-2                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | Gln14-Arg683(T19I, L24S, PPA25-27 del, G142D, V213G, G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452Q, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H, D614G, H655Y, N679K, P681H)                                                                                                                                   |
| <b>Form</b>             | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.                                                                                                                                                                                                            |
| <b>Bio-activity</b>     | Immobilized SARS-CoV-2 Spike S1 (Omicron BA.2.12.1), His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 14.7ng/ml determined by ELISA.                                                                                                                                             |
| <b>Molecular Mass</b>   | The protein has a predicted MW of 76.05 kDa. Due to glycosylation, the protein migrates to 100-120 kDa based on Tris-Bis PAGE result.                                                                                                                                                                                                     |

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|                       |                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | Less than 1EU per µg by the LAL method.                                                                                                                     |
| <b>Purity</b>         | > 95% as determined by Tris-Bis PAGE;> 95% as determined by HPLC                                                                                            |
| <b>Storage</b>        | Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.                    |
| <b>Reconstitution</b> | Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water. |

## GENE INFORMATION

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

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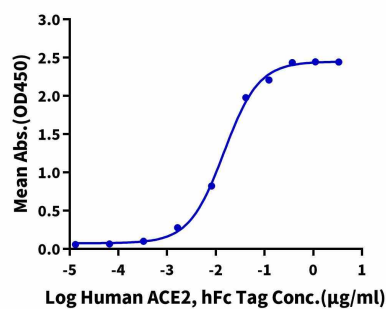
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## Tris-Bis PAGE



## ELISA

**SARS-CoV-2 Spike S1 (Omicron BA.2.12.1), His Tag ELISA**  
0.2µg SARS-CoV-2 Spike S1 (Omicron BA.2.12.1), His Tag Per Well



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