

## 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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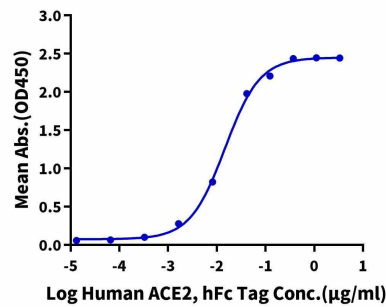
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**Tris-Bis PAGE**



**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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