

## Recombinant COVID-19 Spike RBD (Omicron B.1.1.529) protein, His-tagged

Cat. No. Spike-2744V Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant COVID-19 Spike RBD (Omicron B.1.1.529) protein(QHO60594.1)(Arg319-Phe541(G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H)), fused with C-terminal His tag, was expressed in HEK293.
<b>Species</b>	Sars-CoV-2
<b>Source</b>	HEK293
<b>ProteinLength</b>	Arg319-Phe541(G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H)
<b>Tag</b>	C-His
<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 RBD (Omicron B.1.1.529) , His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human ACE2, hFc Tag with the EC50 of 9.4ng/ml determined by ELISA.
<b>Molecular Mass</b>	The protein has a predicted MW of 26.2 kDa. Due to glycosylation, the protein migrates to 35-40 kDa based on Tris-Bis PAGE result.

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<b>Endotoxin</b>	Less than 1EU per ug 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

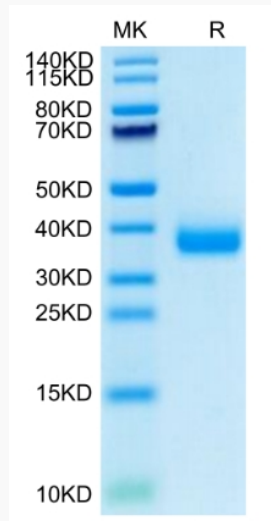
<b>Gene Name</b>	S spike protein [ Middle East respiratory syndrome-related coronavirus ]
<b>Official Symbol</b>	S
<b>Synonyms</b>	Spike; S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1
<b>Gene ID</b>	14254594
<b>Protein Refseq</b>	YP_009724390.1
<b>UniProt ID</b>	P0DTC2

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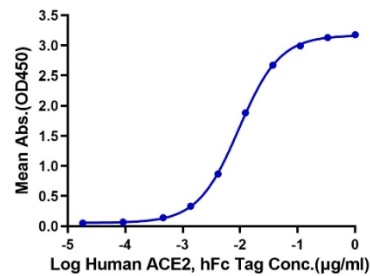
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**Tris-Bis PAGE**



**ELISA Data**

**SARS-COV-2 Spike RBD (Omicron B.1.1.529) , His Tag ELISA**  
0.1µg SARS-COV-2 Spike RBD (Omicron B.1.1.529) , His Tag Per Well



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