

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

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

SPECIFICATION

Product Overview	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.
Species	Sars-CoV-2
Source	HEK293
ProteinLength	Arg319-Phe541(G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H)
Tag	C-His
Form	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Bio-activity	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.
Molecular Mass	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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Endotoxin	Less than 1EU per ug by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE;> 95% as determined by HPLC
Storage	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.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.

GENE INFORMATION

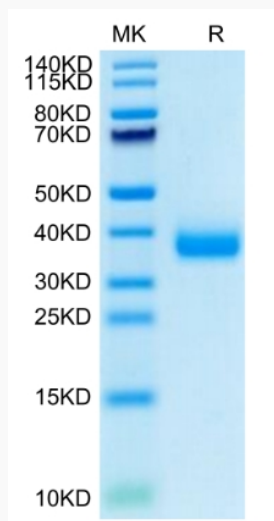
Gene Name	S spike protein [Middle East respiratory syndrome-related coronavirus]
Official Symbol	S
Synonyms	Spike; S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1
Gene ID	14254594
Protein Refseq	YP_009724390.1
UniProt ID	P0DTC2

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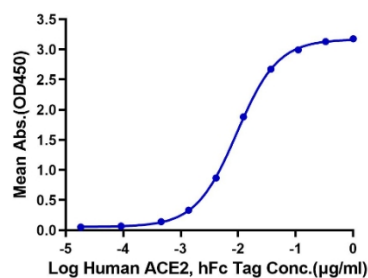
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Tris-Bis PAGE



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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