

## Recombinant COVID-19 B.1.1.529 (Omicron) Spike RBD protein(Arg319-Phe541), His-tagged

Cat. No. Spike-1274V Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant SARS-CoV-2 Spike RBD (YP_009724390.1, with mutation G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H) (Arg319-Phe541) was expressed in HEK293 with a polyhistidine tag at the C-terminus. The mutations were identified in the SARS-CoV-2 variant (known as variant B.1.1.529) which emerged in the South Africa.
<b>Species</b>	Sars-CoV-2
<b>Source</b>	HEK293
<b>ProteinLength</b>	Arg319-Phe541
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Bio-activity</b>	Immobilized human ACE2 protein (mFc tag) at 2 µg/mL (100 µL/well) can bind SARS-CoV-2 B.1.1.529 (Omicron) Spike RBD Protein (His Tag), the EC50 is 3-10 ng/mL.
<b>Molecular Mass</b>	The recombinant SARS-CoV-2 Spike RBD consists of 234 amino acids and predicts a molecular mass of 26.83 kDa.
<b>Endotoxin</b>	< 1.0 EU per µg protein as determined by the LAL method.
<b>Purity</b>	> 95 % as determined by SDS-PAGE. > 95 % as determined by SEC-HPLC.

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**Storage** Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Reconstitution** 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

**Gene Name** [S surface glycoprotein \[ Severe acute respiratory syndrome coronavirus 2 \]](#)

**Official Symbol** [Spike](#)

**Synonyms** Spike; S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1

**Gene ID** [43740568](#)

**Protein Refseq** [YP\\_009724390.1](#)

**UniProt ID** [P0DTC2](#)

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