

Recombinant COVID-19 Spike S1 (L18F, T20N, P26S, D138Y, R190S, K417T, E484K, N501Y, D614G, H655Y) protein(Met1-Arg685), His-tagged

Cat. No. Spike-1244V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant COVID-19 Spike S1 (YP_009724390.1, with mutations L18F, T20N, P26S, D138Y, R190S, K417T, E484K, N501Y, D614G, H655Y) (Met1-Arg685) 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 P.1) which emerged in the Brazil.
Species	Sars-CoV-2
Source	HEK293
ProteinLength	Met1-Arg685
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Immobilized human ACE2 protein (mFc tag) at 2 µg/mL (100 µL/well) can bind SARS-CoV-2 Spike S1 (L18F, T20N, P26S, D138Y, R190S, K417T, E484K, N501Y, D614G, H655Y) Protein (His Tag), the EC50 of SARS-CoV-2 Spike S1 (L18F, T20N, P26S, D138Y, R190S, K417T, E484K, N501Y, D614G, H655Y) Protein (His Tag) is 15-90 ng/mL.
Molecular Mass	The recombinant SARS-CoV-2 (2019-nCoV) Spike S1 consists of 681 amino acids and predicts a molecular mass of 76.5 kDa. As a result of glycosylation, it migrates as

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an approximately 113.9 kDa band in SDS-PAGE under reducing conditions.

Endotoxin < 1.0 EU per µg protein as determined by the LAL method.

Purity > 90 % as determined by SDS-PAGE.

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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