

Recombinant COVID-19 Spike RBD (L452R, E484Q) protein(Arg319-Phe541), His&Avi-tagged, Biotinylated

Cat. No. Spike-1222V Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV-2 Spike RBD (YP_009724390.1, with mutations L452R, E484Q) (Arg319-Phe541) was expressed in HEK293 with a C-terminal polyhistidine tag followed by an AVI tag. The purified protein was biotinylated in vitro. The mutations were identified in the SARS-CoV-2 variant (known as variant B.1.617, B.1.617.1, B.1.617.3) which emerged in the India.
Species	Sars-CoV-2
Source	HEK293
ProteinLength	Arg319-Phe541
Conjugation/Label	Biotin
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 ACE2 Protein, Human, Recombinant (mFc Tag) at 2 µg/mL (100 µL/well) can bind SARS-CoV-2 Spike RBD (L452R, E484Q) Protein (His & AVI Tag), Biotinylated, the EC50 of SARS-CoV-2 Spike RBD (L452R, E484Q) Protein (His & AVI Tag), Biotinylated is 10-60 ng/mL.
Molecular Mass	The recombinant SARS-CoV-2 Spike RBD consists of 249 amino acids and predicts a molecular mass of 28.4 kDa. As a result of glycosylation, it migrates as an

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approximately 35.88 kDa band in SDS-PAGE under reducing conditions.

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

Purity > 95 % 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.

Conjugation Biotin

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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