

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

Cat. No. Spike-1269V Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant SARS-CoV-2 Spike RBD (YP_009724390.1, with mutations L452R, E484Q) (Arg319-Phe541) was expressed in HEK293 with a polyhistidine tag at the C-terminus. The purified protein was biotinylated in vitro. The mutations were identified in the SARS-CoV-2 variant (known as variant B.1.617) which emerged in the India.
<b>Species</b>	Sars-CoV-2
<b>Source</b>	HEK293
<b>ProteinLength</b>	Arg319-Phe541
<b>Conjugation/Label</b>	Biotin
<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>Molecular Mass</b>	The recombinant SARS-CoV-2 Spike RBD consists of 234 amino acids and predicts a molecular mass of 26.6 kDa. As a result of glycosylation, it migrates as an approximately 36 kDa band in SDS-PAGE under reducing conditions.
<b>Endotoxin</b>	< 1.0 EU per µg protein as determined by the LAL method.
<b>Purity</b>	> 95 % as determined by SDS-PAGE.

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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.

**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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