

## Active Recombinant SARS-CoV-2 Spike S1 ((LAL242-244)deletion, L18F, D80A, D215G, R246I, K417N, E484K, N501Y, D614G) Protein, His/AVI-tagged, Biotinylated

Cat. No. S-453S Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

Recombinant SARS-CoV-2 Spike S1 (YP\_009724390.1, with mutations (LAL242-244)deletion, L18F, D80A, D215G, R246I, K417N, E484K, N501Y, D614G) (Met1-Arg685) was expressed in HEK293 cell with a c-terminal polyhistidine tagged AVI 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.1.351) which emerged in the South Africa.

#### Species

SARS-CoV-2

#### Source

HEK293

#### ProteinLength

1-685

#### Predicted N Terminal

Val 16

#### Bio-activity

Immobilized ACE2 Protein, Human, Recombinant (mFc Tag) at 2 µg/mL (100 µL/well) can bind SARS-CoV-2 Spike S1 ((LAL242-244) deletion, L18F, D80A, D215G, R246I, K417N, E484K, N501Y, D614G) Protein (His/AVI Tag), Biotinylated, the EC50 of SARS-CoV-2 Spike S1 ((LAL242-244) deletion, L18F, D80A, D215G, R246I, K417N, E484K, N501Y, D614G) Protein (His/AVI Tag), Biotinylated is 60-360 ng/mL.

#### Molecular Mass

The recombinant SARS-CoV-2 Spike S1 consists of 693 amino acids and predicts a molecular mass of 77.84 kDa. As a result of glycosylation, it migrates as an

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approximately 120.35 kDa band in SDS-PAGE under reducing conditions.

**Endotoxin** < 1.0 EU/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 to -80 centigrade.  
Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Storage Buffer** Lyophilized from sterile PBS, pH 7.4.  
Please contact us for any concerns or special requirements.  
Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

**Conjugation** Biotin

## GENE INFORMATION

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

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

**Synonyms** S; surface glycoprotein; spike glycoprotein; surface glycoprotein; structural protein; spike protein

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

**mRNA Refseq** [MN908947](#)

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Protein Refseq YP\_009724390

SDS-PAGE

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