

Recombinant SARS-CoV-2 (2019-nCoV) Spike S1 (L18F, D80A, D215G, LAL242-244 deletion, R246I, K417N, E484K, N501Y, D614G) Protein, His-tagged

Cat. No. S-452S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV-2 (2019-nCoV) Spike S1 (YP_009724390.1, with mutations L18F, D80A, D215G, LAL242-244 deletion, R246I, K417N, E484K, N501Y, D614G) (Met1-Arg685) was expressed in HEK293 cell with a polyhistidine tag at the C-terminus. The mutations were identified in the SARS-CoV-2 variant (known as 20C/501Y.V2 or B.1.351 lineage) which emerged in South Africa.
Species	SARS-CoV-2
Source	HEK293
ProteinLength	1-685
Predicted N Terminal	Val 16
Molecular Mass	The recombinant SARS-CoV-2 (2019-nCoV) Spike S1 consists of 678 amino acids and predicts a molecular mass of 76 kDa. As a result of glycosylation, it migrates as an approximately 106.3 kDa band in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU/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 to -80

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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.

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](#)

Protein Refseq [YP_009724390](#)

SDS-PAGE

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