

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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