

Recombinant SARS-CoV-2 (2019-nCoV) Spike RBD (N501Y) Protein, rFc-tagged

Cat. No. S-439S Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant SARS-CoV-2 (2019-nCoV) Spike RBD (YP_009724390.1, with mutation N501Y) (Arg319-Phe541) was expressed in HEK293 cell with the Fc region of rabbit IgG1 at the C-terminus. The mutation was identified in the SARS-CoV-2 variant (known as 20B/501Y.V1, VOC 202012/01, or B.1.1.7 lineage) which emerged in the United Kingdom.

Species SARS-CoV-2

Source HEK293

ProteinLength 319-541

Predicted N Terminal Ser

Molecular Mass The recombinant SARS-CoV-2 (2019-nCoV) Spike RBD consists of 448 amino acids and predicts a molecular mass of 50.4 kDa. As a result of glycosylation, it migrates as an approximately 52.5 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 centigrade.

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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

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