

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

Cat. No. S-425S **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 human IgG1 at the C-terminus. The mutation were 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 Kindom.
Species	SARS-CoV-2
Source	HEK293
ProteinLength	319-541
Predicted N Terminal	Ser
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized human ACE2 protein (His tag) at 2µg/mL (100µL/well) can bind S3-2019-nCov-2-RBD(319R-541F,N501Y)-Fc, the EC50 of S3-2019-nCov-2-RBD(319R-541F,N501Y)-Fc is 1.5-8.0 ng/mL.
Molecular Mass	The recombinant SARS-CoV-2 (2019-nCoV) Spike RBD consists of 462 amino acids and predicts a molecular mass of 52 kDa. As a result of glycosylation, it migrates as an approximately 57 kDa band in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU/µg protein as determined by the LAL method.

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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. 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
Activity	
SDS-PAGE	