Recombinant SARS-CoV-2 (2019-nCoV) Spike RBD (K417N, E484K, N501Y) Protein, rFc-tagged

Cat. No. S-461S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV-2 (2019-nCoV) Spike RBD (YP_009724390.1, with mutations K417N, E484K, N501Y) (Arg319-Phe541) was expressed in HEK293 cell with the Fc region of rabbit IgG1 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	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 57.4 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.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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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