

## Active Recombinant SARS-CoV-2 (2019-nCoV) Spike S1(K417N, E484K, N501Y, D614G) Protein, His-tagged

Cat. No. S-449S Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant SARS-CoV-2 (2019-nCoV) Spike S1(K417N, E484K, N501Y, D614G)-His Recombinant Protein (YP\_009724390.1) (Met1-Arg685(K417N, E484K, N501Y, D614G)) was expressed in HEK293 cell with a polyhistidine tag at the C-terminus.

**Species** SARS-CoV-2

**Source** HEK293

**ProteinLength** 1-685

**Predicted N Terminal** Val 16

**Bio-activity** Measured by its binding ability in a functional ELISA. Immobilized Human ACE2 (mFc tag) at 2 µg/mL (100 µL/well) can bind SARS-CoV-2 (2019-nCoV) Spike S1(K417N, E484K, N501Y, D614G)-His, the EC50 of SARS-CoV-2 (2019-nCoV) Spike S1(K417N, E484K, N501Y, D614G)-His is 15-90 ng/mL.

**Molecular Mass** The recombinant SARS-CoV-2 (2019-nCoV) Spike S1(K417N, E484K, N501Y, D614G)-His Recombinant Protein consists of 681 amino acids and predicts a molecular mass of 76.4 kDa. As a result of glycosylation, it migrates as an approximately 114.7 kDa band in SDS-PAGE under reducing conditions.

**Endotoxin** < 1.0 EU/µg protein as determined by the LAL method.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	> 90 % as determined by SDS-PAGE.
<b>Storage</b>	<p>Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.</p> <p>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.</p>
<b>Storage Buffer</b>	<p>Lyophilized from sterile PBS, pH 7.4.</p> <p>Please contact us for any concerns or special requirements.</p> <p>Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.</p>

## GENE INFORMATION

<b>Gene Name</b>	S surface glycoprotein [ Severe acute respiratory syndrome coronavirus 2 ]
<b>Official Symbol</b>	S
<b>Synonyms</b>	S; surface glycoprotein; spike glycoprotein; surface glycoprotein; structural protein; spike protein
<b>Gene ID</b>	43740568
<b>mRNA Refseq</b>	MN908947
<b>Protein Refseq</b>	YP_009724390
<b>SDS-PAGE</b>	
<b>Activity</b>	

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