

## Recombinant SARS-CoV-2 (2019-nCoV) Spike S1(HV69-70 deletion, Y144 deletion, N501Y, A570D, D614G, P681H) Protein, His-tagged, Biotinylated

Cat. No. S-434S Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant SARS-CoV-2 (2019-nCoV) Spike S1 (YP\_009724390.1, with mutations HV69-70 deletion, Y144 deletion, N501Y, A570D, D614G, P681H) (Met1-Arg685) was expressed in HEK293 cell with a polyhistidine tag at the C-terminus. The purified protein was biotinylated in vitro. The mutations 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 Kingdom.

**Species** SARS-CoV-2

**Source** HEK293

**ProteinLength** 1-685

**Predicted N Terminal** Val 16

**Molecular Mass** The recombinant SARS-CoV-2 (2019-nCoV) Spike S1 consists of 678 amino acids and predicts a molecular mass of 76.1 kDa. As a result of glycosylation, it migrates as an approximately 116 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.

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**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

**Protein Refseq** YP\_009724390

## SDS-PAGE

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