

# Recombinant 2019-nCoV Spike S1 (T19R, G142D, E156G, 157-158 deletion, L452R, T478K, D614G, P681R) Protein, His-tagged

**Cat. No.** Spike-470V    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant 2019-nCoV Spike S1 (T19R, G142D, E156G, 157-158 deletion, L452R, T478K, D614G, P681R) Protein(YP_009724390.1)(Met1-Arg685), fused to His tag, was expressed in HEK293.                                              |
| <b>Species</b>          | Sars-Cov-2                                                                                                                                                                                                                      |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | Met1-Arg685                                                                                                                                                                                                                     |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                               |
| <b>Molecular Mass</b>   | The recombinant SARS-CoV-2 Spike S1 consists of 679 amino acids and predicts a molecular mass of 76.27 kDa. As a result of glycosylation, it migrates as an approximately 95.12 kDa band in SDS-PAGE under reducing conditions. |
| <b>Endotoxin</b>        | < 1.0 EU per µg protein as determined by the LAL method.                                                                                                                                                                        |
| <b>Purity</b>           | > 90 % as determined by SDS-PAGE.                                                                                                                                                                                               |
| <b>Storage</b>          | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C                                                                                                                                               |

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Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Reconstitution**

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

**GENE INFORMATION**

**Gene Name** S surface glycoprotein [ Severe acute respiratory syndrome coronavirus 2 ]

**Official Symbol** S

**Synonyms** Spike; S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1; COVID-19

**Gene ID** 43740568

**Protein Refseq** YP\_009724390.1

**UniProt ID** P0DTC2

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