

## Recombinant SARS-CoV-2 (2019-nCoV) Spike S1+S2 ECD (L18F, D80A, D215G, LAL242-244 deletion, R246I, K417N, E484K, N501Y, D614G, A701V) Protein, His-tagged

Cat. No. S-446S Lot. No. (See product label)

### SPECIFICATION

|                             |   |
|-----------------------------|---|
| <b>Product Overview</b>     | Recombinant SARS-CoV-2 (2019-nCoV) Spike S1+S2 (YP_009724390.1, with mutations L18F, D80A, D215G, LAL242-244 deletion, R246I, K417N, E484K, N501Y, D614G, A701V) (Met1-Pro1213) was expressed in insect cell with a polyhistidine tag 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. |
| <b>Species</b>              | SARS-CoV-2  |
| <b>Source</b>               | Insect Cells  |
| <b>ProteinLength</b>        | 1-1213  |
| <b>Predicted N Terminal</b> | Val 16  |
| <b>Molecular Mass</b>       | The recombinant SARS-CoV-2 (2019-nCoV) Spike S1+S2 consists of 1206 amino acids and predicts a molecular mass of 134 kDa.   |
| <b>Endotoxin</b>            | < 1.0 EU/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 to -80 centigrade.   |

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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 20 mM Tris, 300 mM NaCl, 10 % glycerol, pH 8.0.  
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**

|                        |  |
|------------------------|--|
| <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   |

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