

## Recombinant COVID-19 Spike RBD (Y508H) protein, His-tagged

**Cat. No.** Spike-302V    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                               |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | A DNA sequence encoding the SARS-CoV-2 (2019-nCoV) Spike RBD(Y508H)-His Recombinant Protein (YP_009724390.1) (Arg319-Phe541(Y508H)) was expressed in HEK293 cells with a polyhistidine tag at the C-terminus. |
| <b>Species</b>              | Sars-CoV-2                                                                                                                                                                                                    |
| <b>Source</b>               | HEK293                                                                                                                                                                                                        |
| <b>ProteinLength</b>        | Arg319-Phe541                                                                                                                                                                                                 |
| <b>Predicted N Terminal</b> | Arg319                                                                                                                                                                                                        |
| <b>Form</b>                 | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                |
| <b>Molecular Mass</b>       | The recombinant SARS-CoV-2 (2019-nCoV) Spike RBD(Y508H)-His Recombinant Protein consists of 234 amino acids and predicts a molecular mass of 26.5 kDa.                                                        |
| <b>Endotoxin</b>            | < 1.0 EU per µg protein as determined by the LAL method.                                                                                                                                                      |
| <b>Purity</b>               | > 85 % as determined by SDS-PAGE.                                                                                                                                                                             |
| <b>Stability</b>            | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C                                                                                                                             |

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|                       |                                                                                                                                                                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>        | 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.                                                                                                 |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                               |
| <b>Shipping</b>       | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <b>S</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Official Symbol</b> | <b>S</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>        | coronavirus spike Protein, 2019-nCoV; cov spike Protein, 2019-nCoV; ncov RBD Protein, 2019-nCoV; ncov s1 Protein, 2019-nCoV; ncov s2 Protein, 2019-nCoV; ncov spike Protein, 2019-nCoV; NCP-CoV RBD Protein, 2019-nCoV; NCP-CoV s1 Protein, 2019-nCoV; NCP-CoV s2 Protein, 2019-nCoV; NCP-CoV Spike Protein, 2019-nCoV; novel coronavirus RBD Protein, 2019-nCoV; novel coronavirus s1 Protein, 2019-nCoV; novel coronavirus s2 Protein, 2019-nCoV; novel coronavirus spike Protein, 2019-nCoV; RBD Protein, 2019-nCoV; S1 Protein, 2019-nCoV; S2 Protein, 2019-nCoV; Spike RBD Protein, 2019-nCoV |
| <b>Gene ID</b>         | <b>43740568</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>  | <b>YP_009724390.1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>UniProt ID</b>      | <b>P0DTC2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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