

## Recombinant COVID-19 Spike RBD (E471D) protein(Arg319-Phe541), His-tagged

**Cat. No.** Spike-1258V    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant SARS-CoV-2 Spike RBD (YP_009724390.1, with mutation E471D) (Arg319-Phe541) was expressed in HEK293 with a polyhistidine tag at the C-terminus.                                                                                      |
| <b>Species</b>          | Sars-CoV-2                                                                                                                                                                                                                                      |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | Arg319-Phe541                                                                                                                                                                                                                                   |
| <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 Spike RBD consists of 235 amino acids and predicts a molecular mass of 26.6 kDa. As a result of glycosylation, it migrates as an approximately 30.2 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>           | > 95 % 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. 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. |

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**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**

|                  |                                                                            |
|------------------|----------------------------------------------------------------------------|
| <b>Gene Name</b> | S surface glycoprotein [ Severe acute respiratory syndrome coronavirus 2 ] |
|------------------|----------------------------------------------------------------------------|

|                        |       |
|------------------------|-------|
| <b>Official Symbol</b> | Spike |
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|-----------------|-------------------------------------------------------------------------------------------|
| <b>Synonyms</b> | Spike; S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1 |
|-----------------|-------------------------------------------------------------------------------------------|

|                |          |
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| <b>Gene ID</b> | 43740568 |
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| <b>Protein Refseq</b> | YP_009724390.1 |
|-----------------------|----------------|

|                   |        |
|-------------------|--------|
| <b>UniProt ID</b> | P0DTC2 |
|-------------------|--------|

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