

## Recombinant COVID-19 Spike S1+S2 (E154K, L452R, E484Q, D614G, P681R, E1072K, K1073R) protein(Met1-Pro1213), His-tagged

**Cat. No.** Spike-1286V    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant SARS-CoV-2 Spike S1+S2 (YP_009724390.1, with mutations E154K, L452R, E484Q, D614G, P681R, E1072K, K1073R) (Met1-Pro1213) was expressed in Insect Cells with a polyhistidine tag at the C-terminus. The mutations were identified in the SARS-CoV-2 variant (known as B.1.617) which emerged in the India        |
| <b>Species</b>          | Sars-CoV-2                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | Met1-Pro1213                                                                                                                                                                                                                                                                                                                |
| <b>Form</b>             | Lyophilized from sterile 20 mM Tris, 300 mM NaCl, 10 % glycerol, pH 8. 5. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                                                          |
| <b>Bio-activity</b>     | Immobilized ACE2 Protein, Human, Recombinant (mFc Tag) at 2 µg/mL (100 µL/well) can bind SARS-CoV-2 Spike S1+S2 (E154K, L452R, E484Q, D614G, P681R, E1072K, K1073R) Protein (ECD, His Tag), the EC50 of SARS-CoV-2 Spike S1+S2 (E154K, L452R, E484Q, D614G, P681R, E1072K, K1073R) Protein (ECD, His Tag) is 200-900 ng/mL. |
| <b>Molecular Mass</b>   | The recombinant SARS-CoV-2 Spike S1+S2 consists of 1209 amino acids and predicts a molecular mass of 134.5 kDa.                                                                                                                                                                                                             |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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. 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 0.2 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                                                                                     |
| <b>Synonyms</b>        | Spike; S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1 |
| <b>Gene ID</b>         | 43740568                                                                                  |
| <b>Protein Refseq</b>  | YP_009724390.1                                                                            |
| <b>UniProt ID</b>      | P0DTC2                                                                                    |

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