

# Recombinant COVID-19 Spike S1+S2 (G75V, T76I, R246N, (247, 253) deletion, L452Q, F490S, D614G, T859N) protein(Met1-Pro1213), His-tagged

**Cat. No.** Spike-1289V    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b> | Recombinant SARS-CoV-2 Spike S1+S2 (YP_009724390.1, with mutations G75V, T76I, R246N, (247, 253) deletion, L452Q, F490S, D614G, T859N) (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 variant C.37) which emerged in the Peru. |
| <b>Species</b>          | Sars-CoV-2                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | Met1-Pro1213                                                                                                                                                                                                                                                                                                                               |
| <b>Form</b>             | Lyophilized from sterile 20mM Tris, 300mM NaCl, 10% glycerol, pH 8.0. 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+S2 consists of 1207 amino acids and predicts a molecular mass of 134.11 kDa.                                                                                                                                                                                                                           |
| <b>Endotoxin</b>        | < 1.0 EU per µg protein as determined by the LAL method.                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>           | > 90 % as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                           |

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|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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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| <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. |
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## GENE INFORMATION

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