## PRODUCT INFORMATION

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|---|---|
| **Target** | S1 protein CTD |
| **Synonyms** | S1 protein CTD;Spike protein S1 CTD;BetaCoV S1-CTD;COVID-19 |
| **Description** | Recombinant SARS-CoV-2 (2019-nCoV) S1 protein CTD with C-terminal human Fc tag |
| **Delivery** | In Stock |
| **Uniprot ID** | P0DTC2 |
| **Expression Host** | HEK293 |
| **Tag** | C-Human Fc Tag |
| **Molecular Characterization** | S1 protein CTD(Asn334-Pro527) hFc(Glu99-Ala330) |
| **Molecular Weight** | The protein has a predicted molecular mass of 47.9 kDa after removal of the signal peptide. |
| **Purity** | The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining. |
| **Formulation & Reconstitution** | Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution. |
| **Storage&Shipping** | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature. |
| **Background** | SARS-CoV-2 (Severe Acute Respiratory Syndrome Coronavirus 2) also known as Covid19 (2019 Novel Coronavirus) is a virus that causes illnesses ranging from the common cold to severe diseases. The spike protein is a type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which accounts for recognizing the cell surface receptor, ACE2. S2 contains basic elements needed for the membrane fusion. Recent publications indicate that S1-RBD domain can induce virus neutralizing-antibody and T cell response. |
| **Usage** | Research use only |
| **Conjugate** | Unconjugated |

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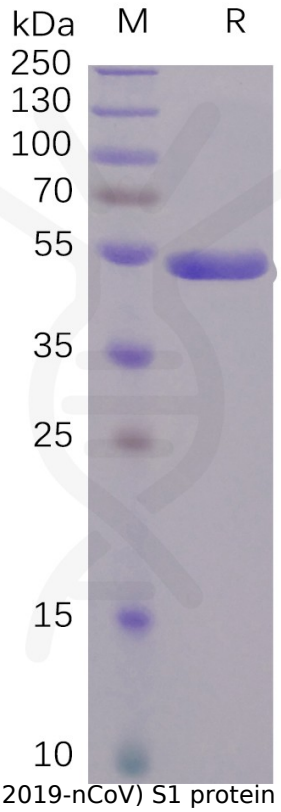



Figure 1. SARS-CoV-2 (2019-nCoV) S1 protein CTD, hFc Tag on SDS-PAGE under reducing condition.

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