SARS-COV-2 SPIKE-MEMBRANE RECOMBINANT FUSION PROTEIN, HIS TAG

Cat.#: 11302

Product Name: SARS-CoV-2 Spike-Membrane Recombinant Fusion Protein

Size : 10 µg, 50 µg and 100 µg

Synonyms: S protein;M protein;COVID-19

Target: S protein

UNIPROT ID: P0DTC2

Description: "Recombinant SARS-CoV-2 Spike-Membrane Fusion Protein

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.

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 31.2 kDa after removal of the signal peptide.

Molecular Characterization: S protein (Lys310-Leu560) Membrane protein(Met1-Lys15) 6×His

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

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.

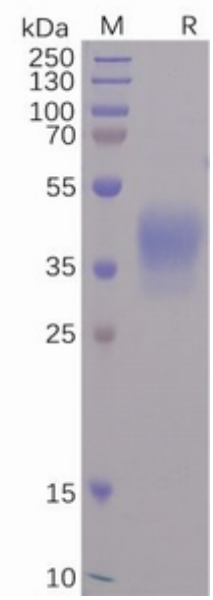

Figure 1. SARS-CoV-2 Spike-Membrane Recombinant Fusion Protein, His Tag on SDS-PAGE under reducing condition.