

SARS-COV-2 (DELTA) S PROTEIN RBD, HIS TAG**Cat.#:** 11443**Product Name:** SARS-CoV-2 (Delta) S Protein RBD**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** SARS-CoV-2 B.1.617.2 (Delta) Spike RBD Protein**Target:** S protein RBD**UNIPROT ID:** P0DTC2**Description:** "Recombinant SARS-CoV-2 RBD(L452R

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 26.0 kDa after removal of the signal peptide. The apparent molecular mass of RBD(L452R,T478K)-His is approximately 25–35 kDa due to glycosylation.

Molecular Characterization: RBD(L452R,T478K)(Ser19-Glu351) 6×His tag

Purity: The purity of the protein is greater than 85% 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.

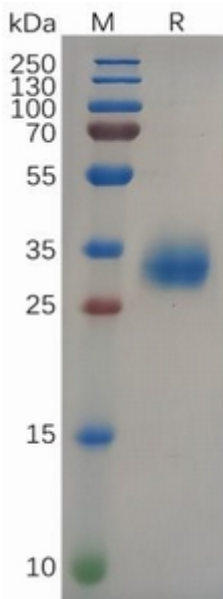


Figure 1. SARS-CoV-2 RBD(L452R,T478K) Protein, His Tag on SDS-PAGE under reducing condition.