

## SARS-COV-2 (2019-NCOV) S1 PROTEIN NTD, MFC TAG

**Cat.#:** 11298

**Product Name:** SARS-CoV-2 (2019-nCoV) S1 Protein NTD

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** S1 protein NTD;pike protein S1 NTD;etaCoV S1-NTD;OVID-19

**Target:** S1 protein NTD

**UNIPROT ID:** P0DTC2

**Description:** Recombinant SARS-CoV-2 (2019-nCoV) S1 protein NTD with C-terminal mouse Fc tag

**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 59.1 kDa after removal of the signal peptide. The apparent molecular mass of S1-NTD-mFc is approximately 70-100 kDa due to glycosylation.

**Molecular Characterization:** S1 protein NTD(Ser13-Leu303) mFc(Pro99-Lys330)

**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.

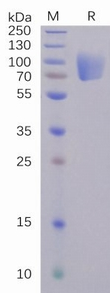
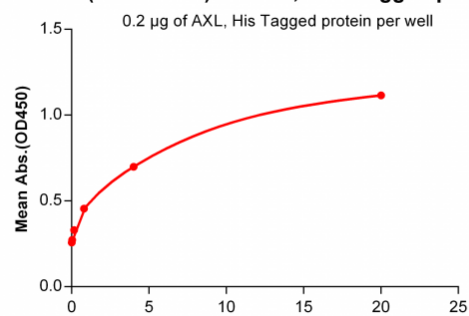


Figure 1. SARS-CoV-2 (2019-nCoV) S1 protein NTD, mFc Tag on SDS-PAGE under reducing condition.

### SARS-CoV-2 (2019-nCoV) S1 NTD, mFc Tagged protein ELISA



SARS-CoV-2 (2019-nCoV) S1 NTD, mFc Tagged protein(µg/ml)

Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human AXL, His tagged protein (11193) can bind Human S1 NTD, mFc Tagged protein (11298) in a linear range of 0.006-0.16 µg/ml.