InnoCyto Inc.
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Technical Data Sheet

SARS-CoV-2 Spike S1 Protein (C-His)

Catalog Number: 602901, 602902
Size: 25 ug, 100 ug
Target Name: SARS-CoV2 Spike S1 Protein, S1 Protein
Regulatory Status: RUO

Product Details

Application: ELISA, BLI
Format: Liquid, Purified
Expression Host: CHO
Species: SARS-CoV-2
Accession Number: QHD43416.1
Sources: Recombinant SARS-CoV-2 S protein S1 domain (Val16-Arg685) with C-terminus His tag was expressed in CHO Cells.
Molecular Weight: This protein has a predicted molecular weight of 76.5 kDa. Under DTT-reducing conditions, the protein migrates at approximately 90-120 kDa on SDS-PAGE.
Affinity Tag: C-His
Purity: >95% based on SDS-PAGE under reducing condition
Formulation: 1xPBS buffer, pH7.4, 0.22 μm filtered
Endotoxin level: Not tested
Protein Concentration: 25μg size is bottled at 0.2mg/mL concentration. 100 μg size is supplied at a lot-specific concentration.
Storage and Handling: Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4°C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 μm-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at <= –70°C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.

Background Information

The S1 domain of the SARS-CoV-2 spike (S) protein is the N-terminal portion responsible for host cell recognition. It is one of two major subunits of the spike protein—the other being the S2 domain, which mediates membrane fusion. The S1 domain contains two key regions N-terminal domain (NTD) and Receptor-binding domain (RBD). Due to its central role in viral attachment and its immunogenicity, the S1 domain is a key target for neutralizing antibodies, vaccines, and diagnostic assays.

Product Data

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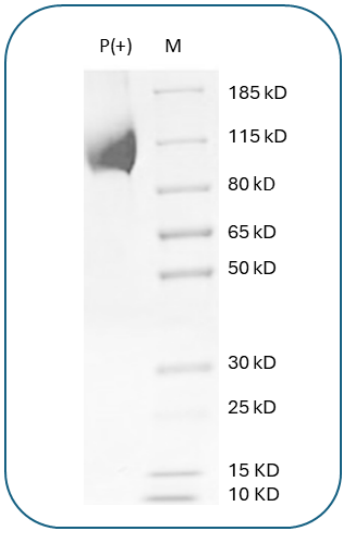
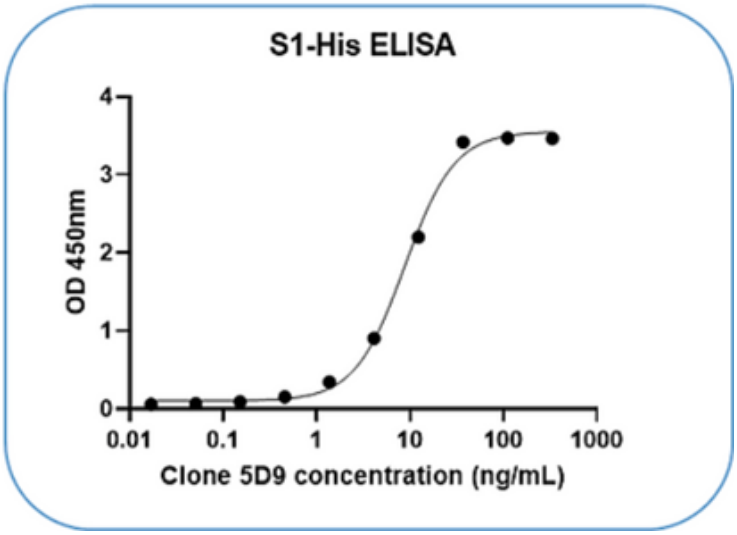


SARS-CoV2 Spike S1 Protein with C-His tag on SDS-PAGE under reducing conditions. The gel was stained for 1 hour with BlinkBlue Protein Staining Buffer (Catalog 700102). The purity of this protein appears to be greater than 95%.



SARS-CoV-2 Spike S1 Protein (C-His) is coated at 2 µg/mL (200 ng/well). Anti-SARS-CoV2 spike antibody (clone 5D9 from Novoproteins) can bind S1 protein in the dose dependent manner.