



Synonym

Spike,S2 protein,Spike glycoprotein Subunit2,S glycoprotein Subunit2,Spike protein S2

Source

Biotinylated SARS-CoV-2 S2 protein, His,Avitag (S2N-C52E8) is expressed from human 293 cells (HEK293). It contains AA Ser 686 - Pro 1213 (Accession # [QHD43416.1](#) (F817P, A892P, A899P, A942P, K986P, V987P)). Proline substitutions (F817P, A892P, A899P, A942P, K986P, V987P) are introduced to prevent the formation of aggregates in the course of protein production.

Predicted N-terminus: Ser 686

Molecular Characterization

S2 protein(Ser 686 - Pro 1213)	Poly-his	Avi
QHD43416.1		

This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 61.5 kDa. The protein migrates as 70-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

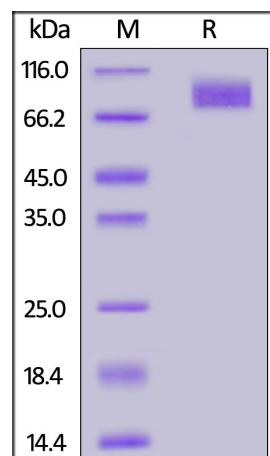
Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

SDS-PAGE



Biotinylated SARS-CoV-2 S2 protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

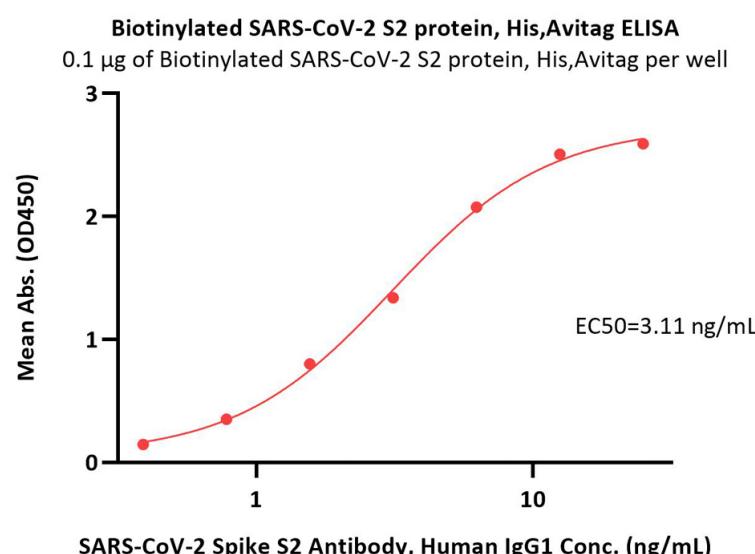
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

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Immobilized Biotinylated SARS-CoV-2 S2 protein, His,Avitag (Cat. No. S2N-C52E8) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) (0.5 µg/well) plate. can bind SARS-CoV-2 Spike S2 Antibody, Human IgG1 with a linear range of 0.4-6 ng/mL (QC tested).

Background

It's been reported that SARS-CoV-2 can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

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