



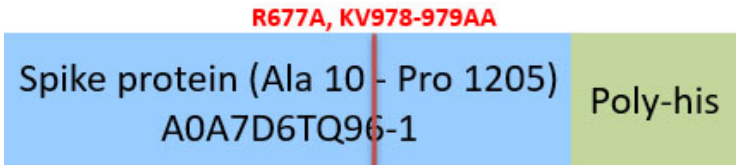
Synonym

Spike,S protein,Spike glycoprotein,S glycoprotein

Source

Pangolin coronavirus hCoV-19/pangolin/Guangdong/1/2019 Spike Trimer, His Tag (SPN-P52H3) is expressed from human 293 cells (HEK293) with T4 fibritin trimerization motif and a polyhistidine tag at the C-terminus. It contains AA Ala 10 - Pro 1205 (Accession # [A0A7D6TQ96-1](#) (R677A, KV978-979AA)).  
Predicted N-terminus: Ala 10

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.  
The protein has a calculated MW of 137.6 kDa. The protein migrates as 170-200 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in 0.1 M Sodium citrate, pH5.5 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.*

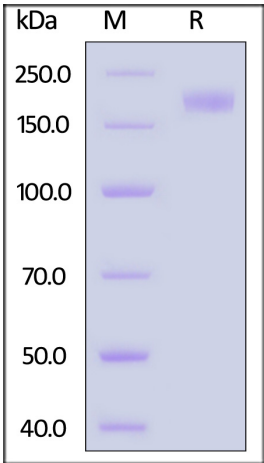
Storage

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.

SDS-PAGE



Pangolin coronavirus hCoV-19/pangolin/Guangdong/1/2019 Spike Trimer, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA

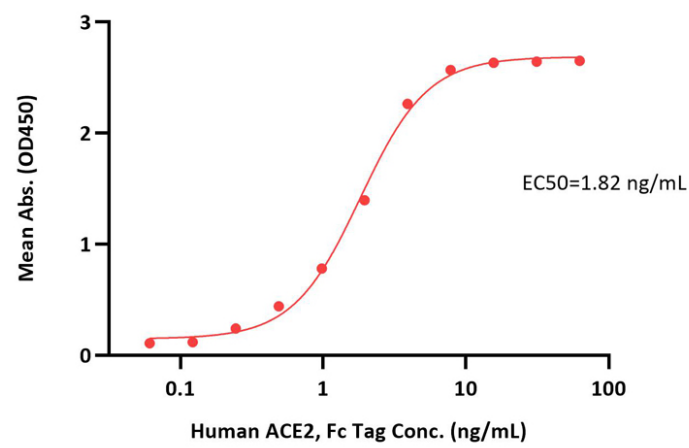


Pangolin coronavirus hCoV-19/pangolin/Guangdong/1/2019 Spike Trimer Protein (R677A, KV978-979AA), His Tag

Catalog # SPN-P52H3



Pangolin coronavirus hCoV-19/pangolin/Guangdong/1/2019 Spike Trimer, His Tag ELISA  
0.1 µg of Pangolin coronavirus hCoV-19/pangolin/Guangdong/1/2019 Spike Trimer, His Tag per well



Immobilized Pangolin coronavirus hCoV-19/pangolin/Guangdong/1/2019 Spike Trimer, His Tag (Cat. No. SPN-P52H3) at 1 µg/mL (100 µL/well) can bind Human ACE2, Fc Tag (Cat. No. AC2-H5257) with a linear range of 0.1-8 ng/mL (Routinely tested).

Background

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.

