

Synonym

Spike,S protein,Spike glycoprotein,S glycoprotein

Source

Pangolin coronavirus isolate PCoV_GX-P5L Spike Trimer, His Tag (SPN-P52H4) is expressed from human 293 cells (HEK293) with T4 fibritin trimerization motif and a polyhistidine tag at the C-terminus. It contains AA Pro 9 - Pro 1207 (Accession # [A0A6G6A1M4](#) (R679A, KV980-981PP)).
Predicted N-terminus: Pro 9

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.
The protein has a calculated MW of 138.2 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

>95% as determined by SDS-PAGE.
>90% as determined by SEC-MALS.

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

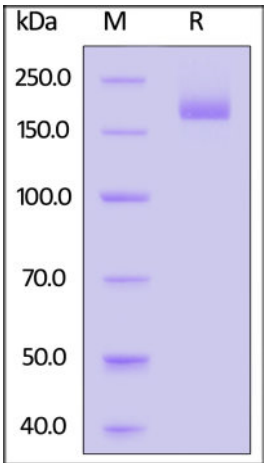
Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

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:

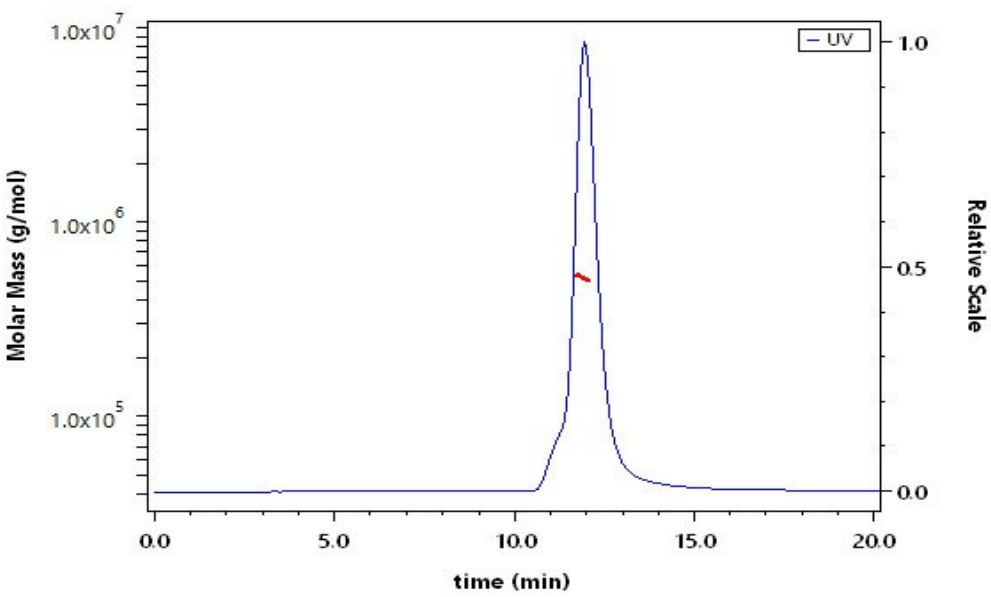
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Pangolin coronavirus isolate PCoV_GX-P5L 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 95%.

SEC-MALS



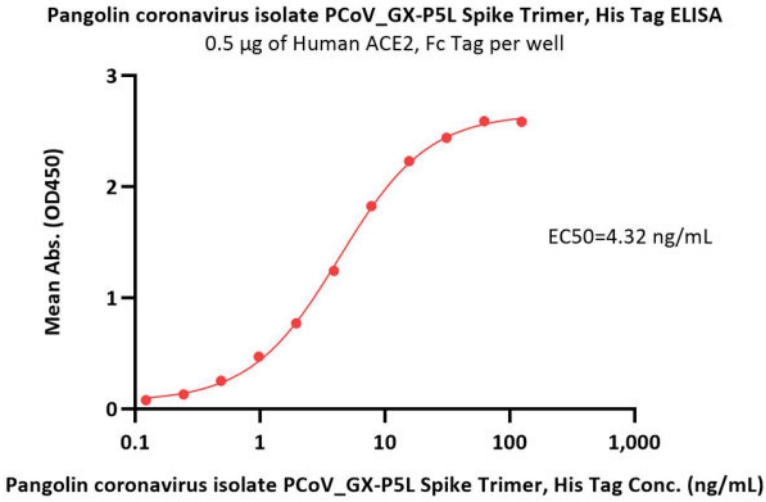
The purity of Pangolin coronavirus isolate PCoV_GX-P5L Spike Trimer, His Tag (Cat. No. SPN-P52H4) is more than 90% and the molecular weight of this protein is around 488-540 kDa verified by SEC-MALS.
[Report](#)

Bioactivity-ELISA



Pangolin coronavirus isolate PCoV_GX-P5L Spike Trimer Protein (R679A, KV980-981PP), His Tag (MALS verified)

Catalog # SPN-P52H4



Immobilized Human ACE2, Fc Tag (Cat. No. AC2-H5257) at 5 µg/mL (100 µL/well) can bind Pangolin coronavirus isolate PCoV_GX-P5L Spike Trimer, His Tag (Cat. No. SPN-P52H4) with a linear range of 0.1-16 ng/mL (QC 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.

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