Bat coronavirus Cp/Yunnan2011 Spike Trimer Protein (R653A, KV954-955PP), His Tag (MALS verified)

Catalog # SPN-B52H5

Synonym

Spike,S protein,Spike glycoprotein,S glycoprotein

Source

Bat coronavirus Cp/Yunnan2011 Spike Trimer, His Tag (SPN-B52H5) is expressed from human 293 cells (HEK293) with T4 fibritin trimerization motif and a polyhistidine tag at the C-terminus. It contains AA Ala 13 - Pro 1181 (Accession # R9QTH3 (R653A, KV954-955PP)).
Predicted N-terminus: Ala 13

Molecular Characterization

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 134.9 kDa. The protein migrates as 160-190 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.

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

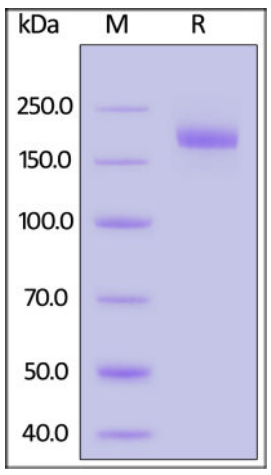
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

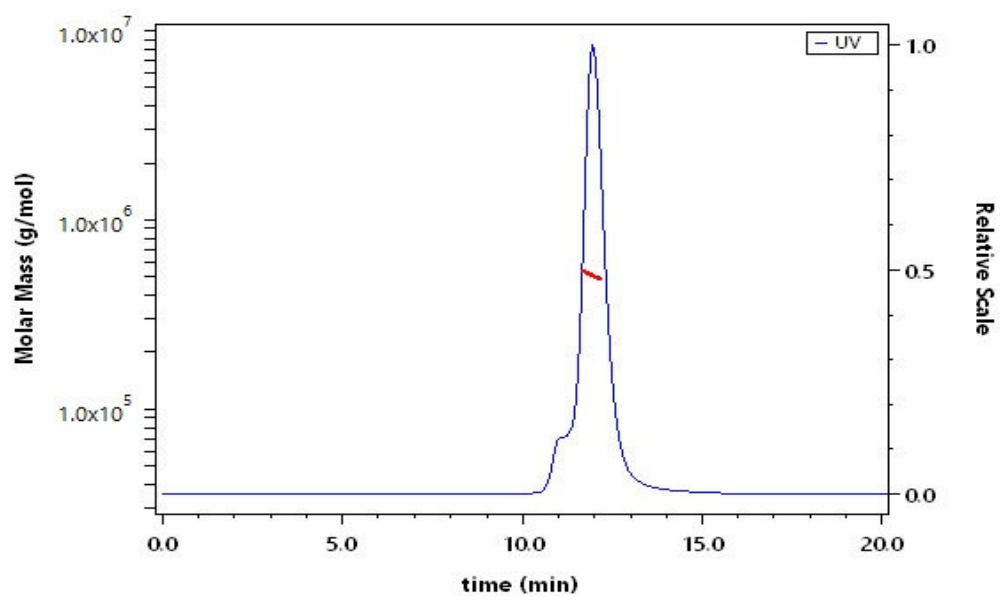
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Bat coronavirus Cp/Yunnan2011 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 Bat coronavirus Cp/Yunnan2011 Spike Trimer, His Tag (Cat. No. SPN-B52H5) is more than 85% and the molecular weight of this protein is around 481-532 kDa verified by SEC-MALS.
Report

Background

Bat coronavirus Cp/Yunnan2011 Spike Trimer Protein (R653A, KV954-955PP), His Tag (MALS verified)

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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.