

Bat coronavirus HKU3 (BtCoV) (SARS-like coronavirus HKU3) Spike Trimer Protein (R654A, KV955-956PP), His Tag (MALS verified)

Catalog # SPN-B52H7



Synonym

Spike,S protein,Spike glycoprotein,S glycoprotein

Source

Bat coronavirus HKU3 (BtCoV) (SARS-like coronavirus HKU3) Spike Trimer, His Tag (SPN-B52H7) is expressed from human 293 cells (HEK293) with T4 fibritin trimerization motif and a polyhistidine tag at the C-terminus. It contains AA Lys 14 - Pro 1182 (Accession # [Q3LZX1](#) (R654A, KV955-956PP)). Predicted N-terminus: Lys 14

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 134.8 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.

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

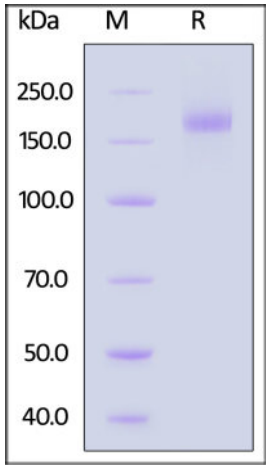
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

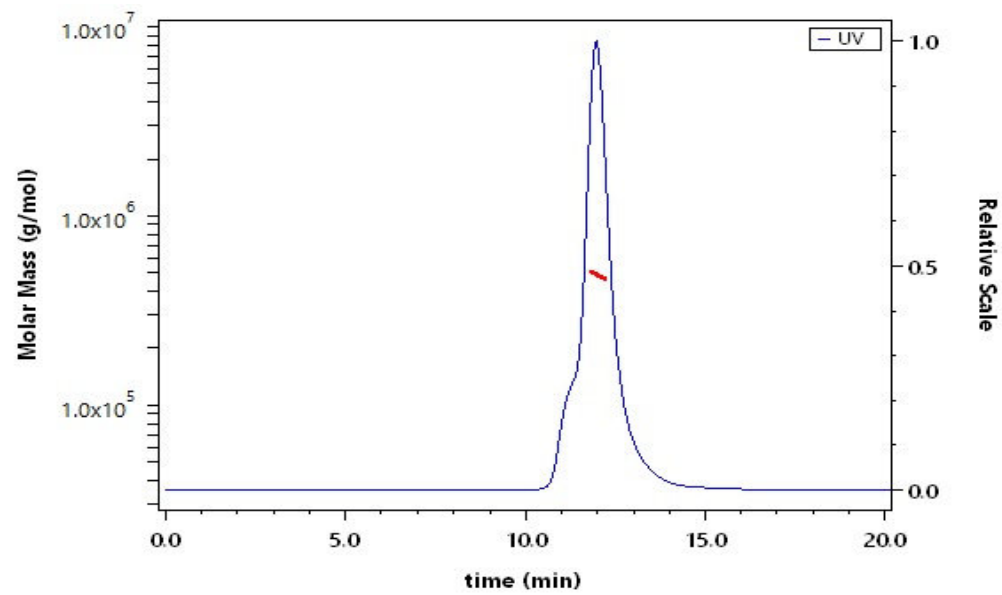
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Bat coronavirus HKU3 (BtCoV) (SARS-like coronavirus HKU3) 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 HKU3 (BtCoV) (SARS-like coronavirus HKU3) Spike Trimer, His Tag (Cat. No. SPN-B52H7) is more than 85% and the molecular weight of this protein is around 459-507 kDa verified by SEC-MALS.

[Report](#)

Background



Bat coronavirus HKU3 (BtCoV) (SARS-like coronavirus HKU3) Spike Trimer Protein (R654A, KV955-956PP), 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.

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