

Influenza A [A/Montana/43/2022(H3N2)] Hemagglutinin 1 (HA1) Protein, His Tag (MALS & SPR verified)

Catalog # HA1-V52Hb



Synonyms

Hemagglutinin 1/HA 1 (Influenza Virus)

Source

Influenza A [A/Montana/43/2022(H3N2)] HA1 Protein, His Tag (HA1-V52Hb) is expressed from human 293 cells (HEK293). It contains AA Gln 17 - Arg 345 (Accession # [WBR48988.1](#)).

Predicted N-terminus: Gln 17

Molecular Characterization

HA 1 (Gln 17 - Arg 345)
WBR48988.1

Poly-His

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

The protein has a calculated MW of 38.1 kDa. The protein migrates as 58-70 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) 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 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.

Shipping and Storage

This product is shipped at ambient temperature.

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

Please avoid repeated freeze-thaw cycles.

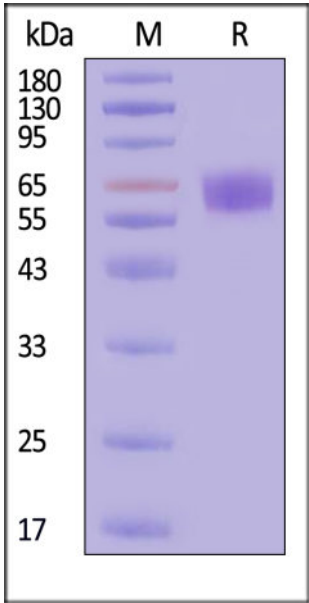
This product is stable after storage at:

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

ACRO Quality Management System

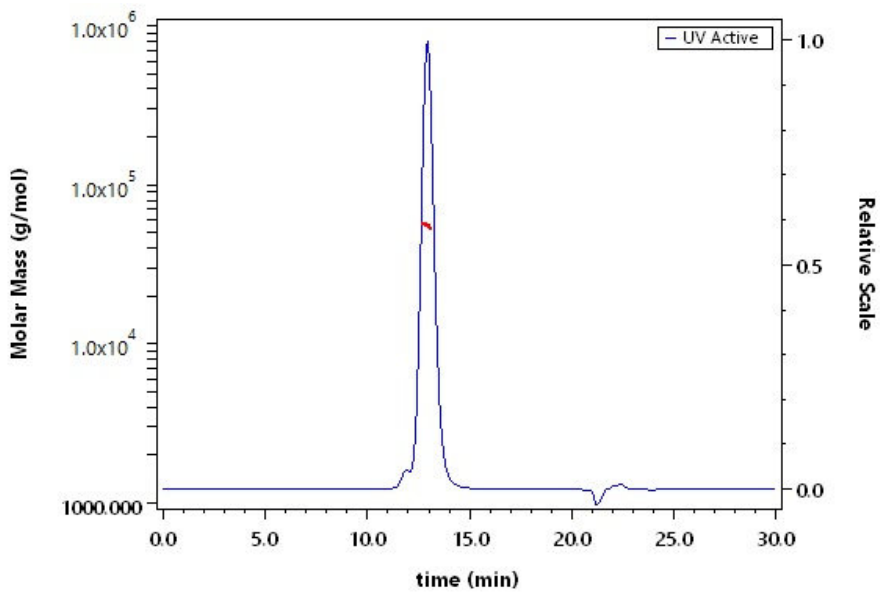
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



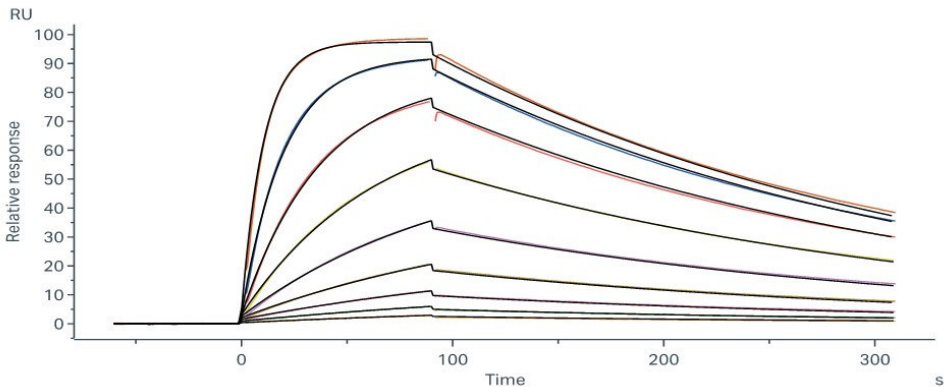
Influenza A [A/Montana/43/2022(H3N2)] HA1 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Influenza A [A/Montana/43/2022(H3N2)] HA1 Protein, His Tag (Cat. No. HA1-V52Hb) is more than 85% and the molecular weight of this protein is around 40-65 kDa verified by SEC-MALS.

Activity-SPR



Monoclonal Anti-Influenza A [A/Darwin/6/2021 (H3N2)] HA Antibody, Human IgG1 (7G4) (Cat. No. HA2-M692) captured on Protein A Chip can bind Influenza A [A/Montana/43/2022(H3N2)] HA1 Protein, His Tag (Cat. No. HA1-V52Hb) with an affinity constant of 23.1 nM as determined in a SPR assay (Biacore 8K) (QC tested).

Background

Hemagglutinin (HA) is a critical surface glycoprotein of the influenza virus, responsible for binding to host cell receptors and mediating viral entry. The HA1 subunit contains the primary antigenic sites, making it a key target for neutralizing antibodies. This mammalian-expressed recombinant protein ensures native glycosylation, ideal for vaccine and therapeutic research.



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