

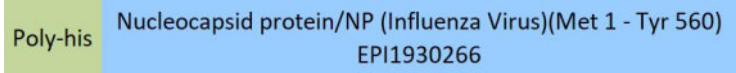
Synonym

Nucleocapsid protein/NP (Influenza Virus)

Source

Influenza B virus (Austria/1359417/2021) NP (B/Victoria lineage) Protein, His Tag (NPB-V52H3) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Tyr 560 (Accession # EPI1930266, GISAID).
Predicted N-terminus: His

Molecular Characterization



This protein carries a polyhistidine tag at the N-terminus.
The protein has a calculated MW of 63.4 kDa. The protein migrates as 80-95 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, 0.2 M Arginine, 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.

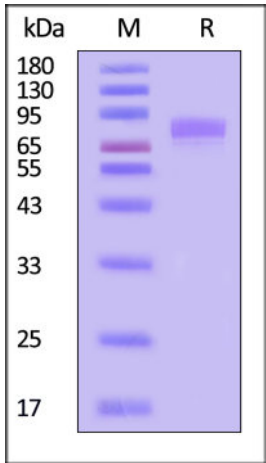
Storage

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



Influenza B virus (Austria/1359417/2021) NP (B/Victoria lineage) 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](#)).

Bioactivity-ELISA

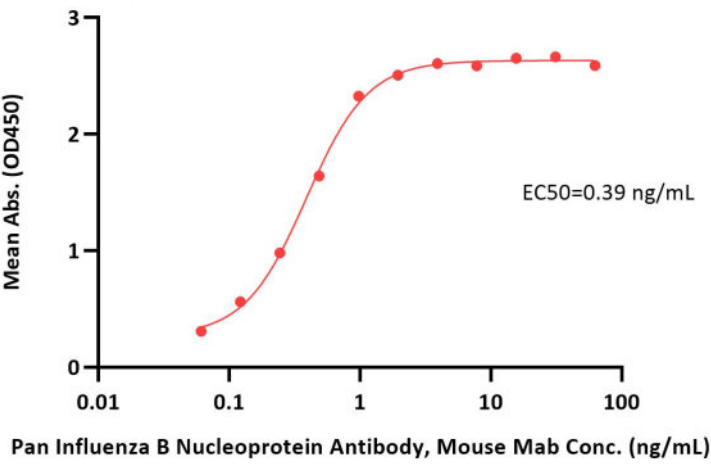


Influenza B virus (Austria/1359417/2021) NP (B/Victoria lineage) Protein, His Tag

Catalog # NPB-V52H3



Influenza B virus (Austria/1359417/2021) NP (B/Victoria lineage) Protein, His Tag ELISA
0.1 µg of Influenza B virus (Austria/1359417/2021) NP (B/Victoria lineage) Protein, His Tag per well



Immobilized Influenza B virus (Austria/1359417/2021) NP (B/Victoria lineage) Protein, His Tag (Cat. No. NPB-V52H3) at 1 µg/mL (100 µL/well) can bind Pan Influenza B Nucleoprotein Antibody, Mouse Mab with a linear range of 0.06-1 ng/mL (QC tested).

Background

Influenza, commonly known as ‘the flu’, is an infectious disease of birds and mammals caused by RNA viruses of the family Orthomyxoviridae, the influenza viruses. Influenza viral nucleoprotein (NP) is highly conserved and the most abundant non-enzymatic viral protein in infected cells. NP is a key component of the viral ribonucleoproteins (vRNPs) complex, and its recognized functions include, but are not limited to, binding to RNA and oligomerizing for the vRNP complex, undergoing intracellular trafficking, and participating in the switch from mRNA transcription to vRNA replication.

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