



### Source

Influenza A (A/Georgia/12/2022 CVR-167) Neuraminidase (NA) (A/pdm09 lineage) Protein, His Tag (NEE-V524p) is expressed from human 293 cells (HEK293). It contains AA Val 80- Asn 469 (Accession # EPI2756234, GISAID).

Predicted N-terminus: His

### Molecular Characterization

Poly-his Neuraminidase (NA)(Val 80- Asn 469)  
EPI2756234

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

The protein has a calculated MW of 44.9 kDa. The protein migrates as 52-55 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.

### 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.*

### Storage

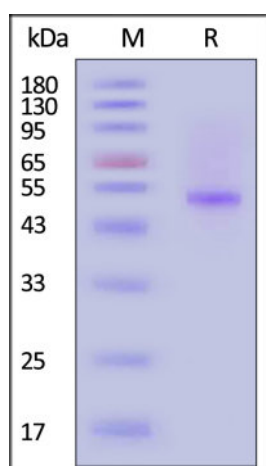
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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 A (A/Georgia/12/2022 CVR-167) NA (A/pdm09 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](#)).

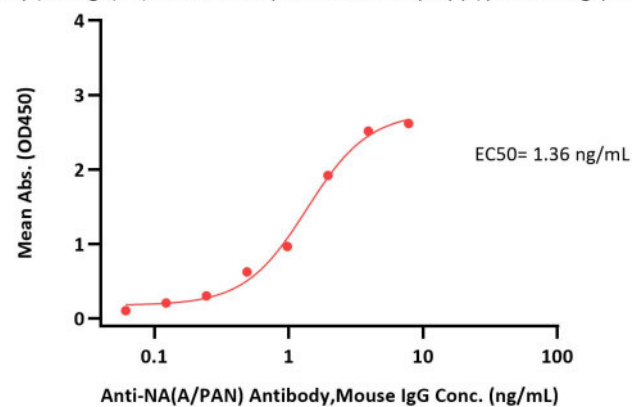
### Bioactivity-ELISA

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Influenza A (A/Georgia/12/2022 CVR-167) Neuraminidase (NA) (A/pdm09 lineage) Protein, His Tag ELISA  
0.1 µg of Influenza A (A/Georgia/12/2022 CVR-167) Neuraminidase (NA) (A/pdm09 lineage) Protein, His Tag per well



Immobilized Influenza A (A/Georgia/12/2022 CVR-167) Neuraminidase (NA) (A/pdm09 lineage) Protein, His Tag (Cat. No. NEE-V524p) at 1 µg/mL (100 µL/well) can bind Anti-NA(A/PAN) Antibody, Mouse IgG with a linear range of 0.1-2 ng/mL (QC tested).

## Background

Neuraminidase (NA) and hemagglutinin (HA) are major membrane glycoproteins found on the surface of influenza virus. Hemagglutinin binds to the sialic acid-containing receptors on the surface of host cells during initial infection and at the end of an infectious cycle. Neuraminidase, on the other hand, cleaves the HA-sialic acid bondage from the newly formed virions and the host cell receptors during budding. Neuraminidase thus is described as a receptor-destroying enzyme which facilitates virus release and efficient spread of the progeny virus from cell to cell.

## Clinical and Translational Updates

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