



## Synonym

NA, Neuraminidase

## Source

Influenza A [A/Victoria/4897/2022(H1N1)] Neuraminidase (NA) Protein, His Tag (NEE-V524c) is expressed from human 293 cells (HEK293). It contains AA Val 80 - Asn 469 (Accession # EPI\_ISL\_17102775, GISAID).

Predicted N-terminus: His

## Molecular Characterization

Poly-his Neuraminidase (NA)(Val 80 - Asn 469)  
EPI\_ISL\_17102775

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

The protein has a calculated MW of 50.9 kDa. The protein migrates as 60-65 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  $\mu\text{g}$  by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Supplied as 0.2  $\mu\text{m}$  filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Shipping

*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

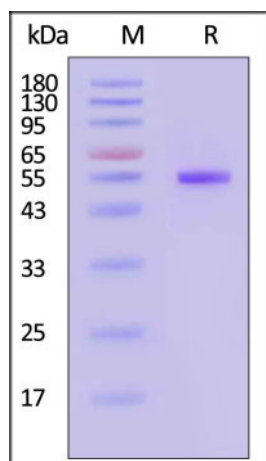
## Storage

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- The product MUST be stored at  $-70^{\circ}\text{C}$  or lower upon receipt;
- $-70^{\circ}\text{C}$  for 3 months under sterile conditions.

## SDS-PAGE

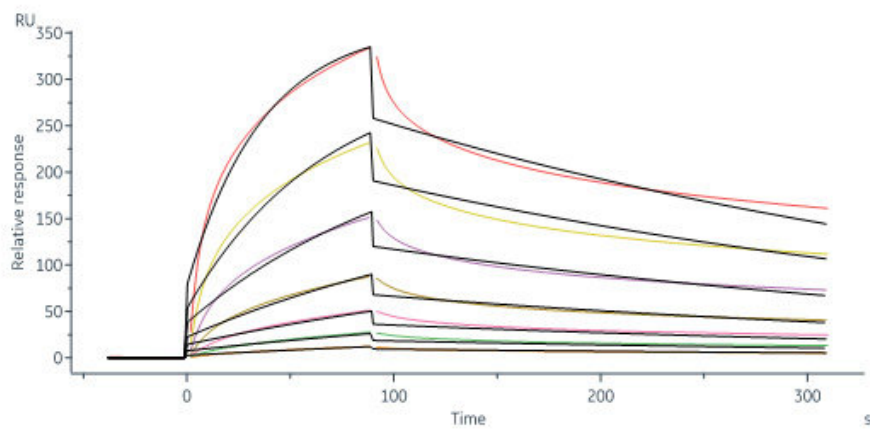


Influenza A [A/Victoria/4897/2022(H1N1)] Neuraminidase (NA) Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-SPR

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$\alpha$ -Neu5Ac-PAA-biotin immobilized on SA Chip can bind Influenza A [A/Victoria/4897/2022(H1N1)] Neuraminidase (NA) Protein, His Tag (Cat. No. NEE-V524c) with an affinity constant of 26.7 nM as determined in a SPR assay (Biacore 8K) (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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