



### Synonym

NA, Neuraminidase

### Source

Influenza A [A/Darwin/9/2021 (H3N2)] Neuraminidase (NA) Protein, His Tag (NE2-V5249) is expressed from human 293 cells (HEK293). It contains AA Lys 80 - Ile 469 (Accession # EPI\_ISL\_2233240, GISAID).

Predicted N-terminus: His

### Molecular Characterization

Poly-his Neuraminidase (NA)(Lys 80 - Ile 469)  
EPI\_ISL\_2233240

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

The protein has a calculated MW of 51 kDa. The protein migrates as 70-90 kDa and 170 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.

>90% as determined by SEC-MALS.

### Formulation

Supplied as 0.2 µm 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.*

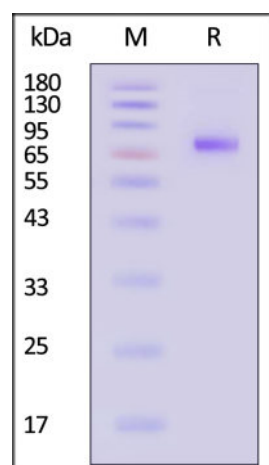
### Storage

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

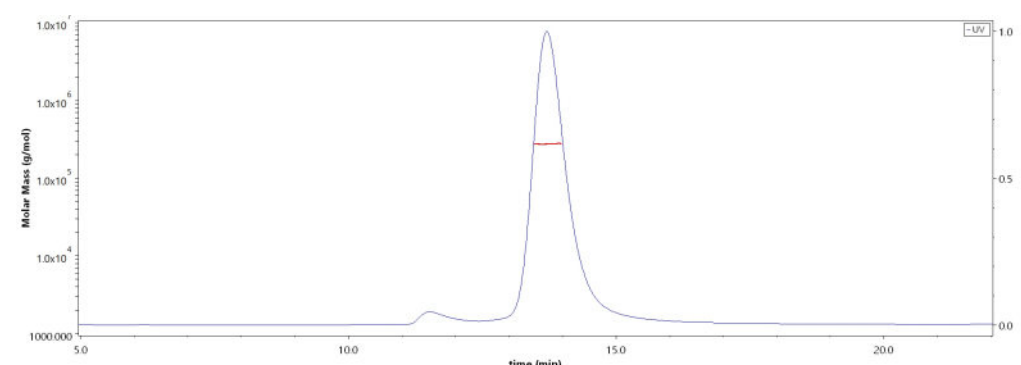
### SDS-PAGE



Influenza A [A/Darwin/9/2021 (H3N2)] 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

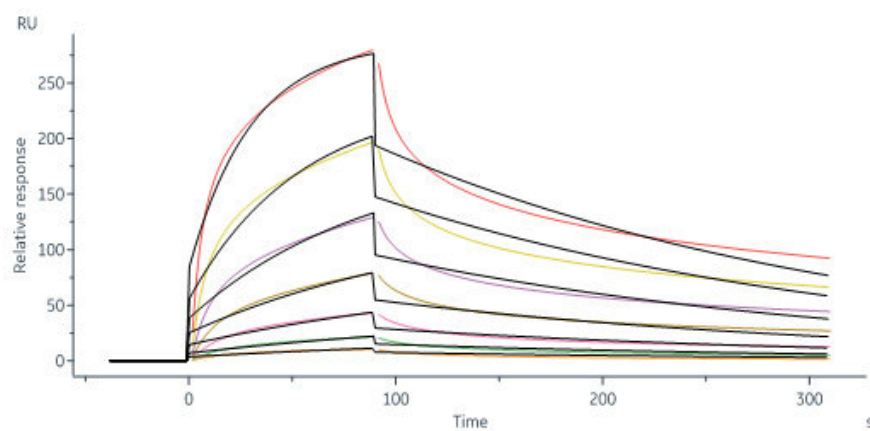
### SEC-MALS



The purity of Influenza A [A/Darwin/9/2021 (H3N2)] Neuraminidase (NA) Protein, His Tag (Cat. No. NE2-V5249) is more than 90% and the molecular weight of this protein is around 270-300 kDa verified by SEC-MALS. [Report](#)

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$\alpha$ -Neu5Ac-PAA-biotin immobilized on SA Chip can bind Influenza A [A/Darwin/9/2021 (H3N2)] Neuraminidase (NA) Protein, His Tag (Cat. No. NE2-V5249) with an affinity constant of 36.3 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 bond 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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