

N8 Neuraminidase (NA) Protein with N-Terminal Histidine Tag from Influenza Virus, A/equine/Pennsylvania/1/2007 (H3N8), Recombinant from Baculovirus

Catalog No. NR-13523

This reagent is the tangible property of the U.S. Government.

Product Description: The N8 neuraminidase (NA) protein from influenza virus A/equine/Pennsylvania/1/2007 (H3N8) containing an N-terminal histidine tag was produced in High-Five™ insect cells using a baculovirus expression vector system and was purified by metal affinity chromatography.

Lot: 62232222

Manufacturing Date: 01OCT2014

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
SDS-PAGE	Protein band of interest represents > 95% of total staining intensity	Dominant band of ~ 55 kDa accounts for ~ 95% of total staining intensity (Figure 1)
Identification by Western Blot Analysis Polyclonal anti-N8 NA ¹ Monoclonal anti-histidine tag ²	Reactive Reactive	Reactive (Figure 2) Reactive (Figure 3)
Concentration by Bradford Assay³	Report results	203 µg per mL
Final Product Quantity per vial Volume per vial	Report results Report results	60.9 µg 300 µL
Functional Activity Neuraminidase activity in fluorescent enzymatic assay ⁴	Report results	9.8 × 10 ⁹ relative fluorescence units per hour per mg protein ⁴
Filtration	0.2 µm sterile-filtered	0.2 µm sterile-filtered

¹BEI Resources NR-3145, Polyclonal Anti-Influenza Virus N8 (Neq2) Neuraminidase (NA), A/equine/Miami/1/1963 (H3N8), (antiserum, Goat) (1:1000 dilution)

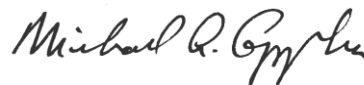
²R & D Systems® (Cat. No. MAB050) (IgG1) (1:1000 dilution)

³Using BSA as a standard

⁴Using 100 ng NR-13523 and 0.3 mM 2'-(4-methylumbelliferyl)-α-D-N-acetylneuraminic acid (4-MUNANA), Sigma (Cat. No. M8639), as described in Wetherall, N.T., et al. "Evaluation of Neuraminidase Enzyme Assays Using Different Substrates to Measure Susceptibility of Influenza Virus Clinical Isolates to Neuraminidase Inhibitors: Report of the Neuraminidase Inhibitor Susceptibility Network." *J. Clin. Microbiol.* 41 (2003): 742-750. PubMed: 12574276.

Date: 20 OCT 2014

Signature:



Title: Technical Manager, BEI Authentication or designee

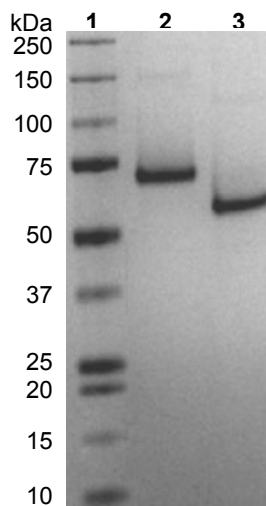
ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

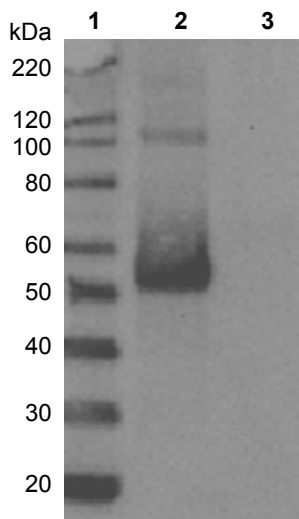


Figure 1 – SDS-PAGE



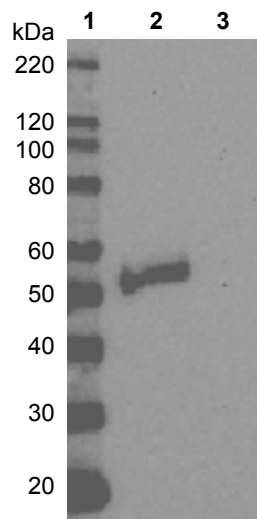
Lane 1: Precision Plus Protein™ Marker (BioRad)
 Lane 2: BSA; 1.0 µg
 Lane 2: NR-13523; 1.0 µg

Figure 2 – Western Blot with Polyclonal Anti-N8 NA



Lane 1: Magic Mark™ XP Protein Standard
 Lane 2: NR-13523; 0.25 µg
 Lane 3: BSA; 0.25 µg

Figure 3 – Western Blot with Monoclonal Anti-Histidine Tag



Lane 1: Magic Mark™ XP Protein Standard
 Lane 2: NR-13523; 0.25 µg
 Lane 3: BSA; 0.25 µg