

**N9 Neuraminidase (NA) Protein from Influenza Virus, A/Anhui/1/2013 (H7N9), Recombinant from Baculovirus**

**Catalog No. NR-44082**

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

**Product Description:** A recombinant form of the N9 neuraminidase (NA) protein from influenza A virus, A/Anhui/1/2013 (H7N9) was produced in Sf9 insect cells using a baculovirus expression vector system, purified by nickel affinity chromatography, and treated with thrombin to remove an N-terminal histidine tag.

**Lot: 70010035**

**Manufacturing Date: 21FEB2018**

TEST	SPECIFICATIONS	RESULTS
<b>Appearance</b>	Clear and colorless	Clear and colorless
<b>SDS-PAGE</b>	Protein band of interest represents ≥ 95% of total staining intensity	Dominant band of ~ 50 kDa accounts for ~ 95% of total staining intensity (Figure 1)
<b>Identification by Western Blot Analysis</b> Polyclonal anti-N9 NA <sup>1</sup> Monoclonal anti-histidine tag <sup>2</sup>	Reactive Not reactive	Reactive (Figure 2) Not reactive (Figure 3)
<b>Concentration by Bradford Assay<sup>3</sup></b>	Report results	212 µg per mL
<b>Final Product</b> Quantity per vial Volume per vial	Report results Report results	64 µg 300 µL
<b>Functional Activity</b> Neuraminidase activity in fluorescent enzymatic assay	Report results	6.6 × 10 <sup>9</sup> relative fluorescence units per hour per mg protein <sup>4</sup>
<b>Endotoxin Content (Limulus Amoebocyte Lysate Assay)</b>	Report results	< 23.6 EU per mg
<b>Filtration</b>	0.2 µm sterile-filtered	0.2 µm sterile-filtered

<sup>1</sup>BEI Resources NR-667, Polyclonal Anti-Influenza Virus N9 Neuraminidase (NA), A/tern/Australia/G70C/1975 (H11N9), (antiserum, Goat) (1:5000 dilution)

<sup>2</sup>R & D Systems (Cat. No. MAB050) (IgG1) (1:1000 dilution)

<sup>3</sup>Using BSA as a standard

<sup>4</sup>Using serial dilutions of NR-44366 and 0.15 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

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Program Manager or designee, ATCC Federal Solutions

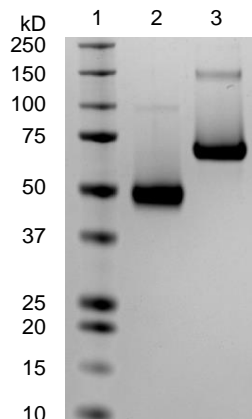
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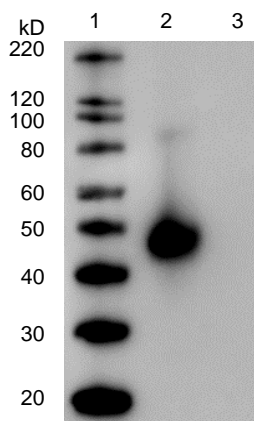


**Figure 1: SDS-PAGE**



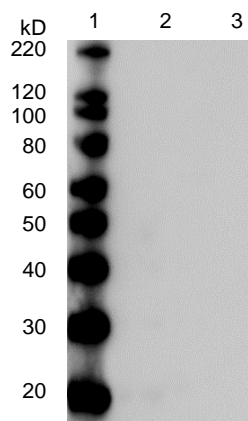
Lane 1: Precision Plus Protein™ Standard  
 Lane 2: NR-44082, 1.0 µg  
 Lane 3: BSA, 1.0 µg

**Figure 2: Western Blot with Polyclonal Anti-N9 NA**



Lane 1: MagicMark™ XP Protein Standard  
 Lane 2: NR-44082, 1.0 µg  
 Lane 3: BSA, 1.0 µg

**Figure 3: Western Blot with Monoclonal Anti-Histidine Tag**



Lane 1: MagicMark™ XP Protein Standard  
 Lane 2: NR-44082, 1.0 µg  
 Lane 3: BSA, 1.0 µg