

N9 Neuraminidase (NA) Protein with N-Terminal Histidine Tag from Influenza Virus, A/Anhui/1/2013 (H7N9), Recombinant from Baculovirus

Catalog No. NR-44366

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) containing an N-terminal histidine tag was produced in Sf9 insect cells using a baculovirus expression vector system and purified by nickel affinity chromatography.

Lot: 62882972

Manufacturing Date: 21AUG2014

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-N9 NA ¹ Monoclonal anti-histidine tag ²	Reactive Reactive	Reactive (Figure 2) Reactive (Figure 3)
Concentration by Bradford Assay³	Report results	16 µg per mL
Final Product Quantity per vial Volume per vial	Report results Report results	56 µg 350 µL
Functional Activity Neuraminidase activity in fluorescent enzymatic assay	Report results	6.6 × 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-667, Polyclonal Anti-Influenza Virus N9 Neuraminidase (NA), A/tern/Australia/G70C/1975 (H11N9), (antiserum, Goat) (1:10000 dilution)

²R & D Systems (Cat. No. MAB050) (IgG1) (1:250 dilution)

³Using BSA as a standard

⁴Using 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.

Date: 10 SEP 2014

Signature:



Title:

Technical Manager, BEI Authentication or designee

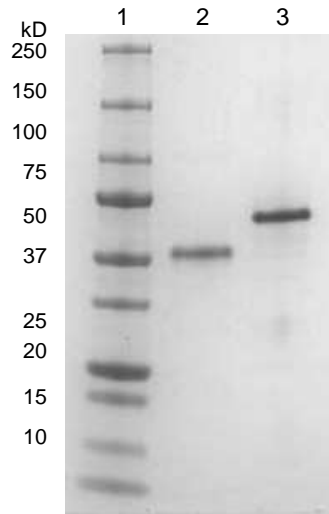
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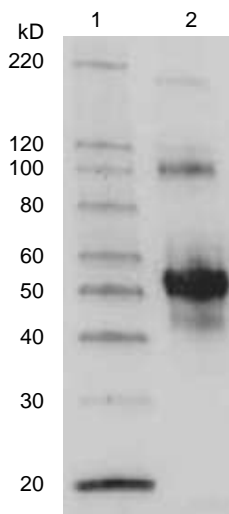


Figure 1: SDS-PAGE



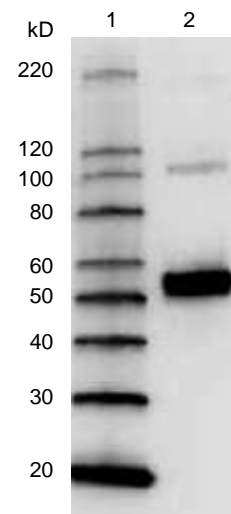
Lane 1: Precision Plus Protein™ Standard
Lane 2: NR-44366, 1.0 µg
Lane 3: BSA, 1.0 µg

Figure 2: Western Blot with Polyclonal Anti-N9 NA



Lane 1: MagicMark™ XP Protein Standard
Lane 2: NR-44366, 0.5 µg

Figure 3: Western Blot with Monoclonal Anti-Histidine Tag



Lane 1: MagicMark™ XP Protein Standard
Lane 2: NR-44366, 0.5 µg