SUPPORTING INFECTIOUS DISEASE RESEARCH

Neuraminidase (NA) Protein with N-Terminal Histidine Tag from Influenza Virus, B/Hong Kong/330/2001 (Victoria Lineage), Recombinant from Baculovirus

Catalog No. NR-43781

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

Product Description: A recombinant form of the neuraminidase (NA) protein from influenza B virus, B/Hong Kong/330/2001 (Victoria Lineage) containing a N-terminal histidine tag was produced in Sf9 insect cells using a baculovirus expression vector system and was purified by nickel affinity chromatography.

Lot: 63100345

Manufacturing Date: 27SEP2016

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
Purity by SDS-PAGE Densitometry Scan	Protein band of interest represents > 90% of total staining intensity	Dominant band of ~ 50 kDa accounts for ~ 90% of total staining intensity (Figure 1)
Identification by Western Blot Analysis Polyclonal anti-N1 NA ¹ Monoclonal anti-histidine tag ²	Reactive Reactive	Reactive (Figure 2) Reactive (Figure 3)
Concentration by Bradford Assay ³	Report results	100 μg per mL
Final Product Quantity per vial Volume per vial	Report results Report results	40 μg 400 μL
Functional Activity Neuraminidase activity in fluorescent enzymatic assay	Report results	9.7 x 10 ⁹ relative fluorescence units per hour per mg protein ⁴
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	Report results	29.8 EU per mg
Filtration	0.2 µm sterile-filtered	0.2 µm sterile-filtered

¹BEI Resources NR-3147, Polyclonal Anti-Influenza Virus Neuraminidase (NA), B/Hong Kong/8/1973, (antiserum, Goat) (1:1000 dilution) ²R & D Systems® (Cat. No. MAB050) (IgG1) (1:1000 dilution)

³Using BSA as a standard

⁴Using serial dilutions of NR-43781 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: 08 DEC 2016

Signature: Milla

BEI Resources Authentication

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.

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Certificate of Analysis for NR-43781

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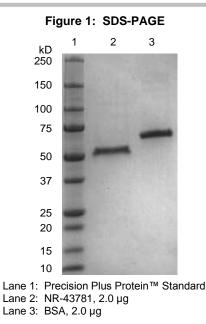
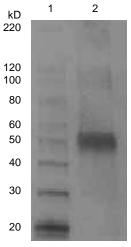
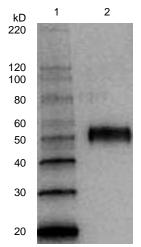


Figure 2: Western Blot with Polyclonal Anti-NA



Lane 1: MagicMark™ XP Protein Standard Lane 2: NR-43781, 0.5 µg

Figure 3: Western Blot with Monoclonal Anti-Histidine Tag



Lane 1: MagicMark™ XP Protein Standard Lane 2: NR-43781, 0.5 µg

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