

N1 Neuraminidase (NA) Protein with N-Terminal Histidine Tag from Influenza Virus, A/Puerto Rico/8/1934 (H1N1), Recombinant from Baculovirus

Catalog No. NR-42002

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

Product Description:

A recombinant form of the N1 neuraminidase (NA) protein from influenza A virus A/Puerto Rico/8/1934 (H1N1) containing an N-terminal histidine tag was produced in *Spodoptera frugiperda* Sf9 cells using a baculovirus expression vector system and purified by nickel affinity chromatography, and vialled in 25 mM phosphate buffer (pH 8.0) with 250 mM NaCl, 250 mM imidazole, and 50% glycerol.

Lot: 63195703

Manufacturing Date: 17APR2015

| TEST | SPECIFICATIONS | RESULTS |
|---|---|---|
| Appearance | Clear and colorless | Clear and colorless |
| SDS-PAGE Analysis | Protein band of interest represents > 90% of total staining intensity | The dominant band of ~ 50 kDa accounts for > 95% of total staining intensity (Figure 1) |
| Concentration by Bicinchoninic Acid Protein Assay¹ | Report results | 9.79 µg/mL |
| Vial Contents Quantity per vial Volume per vial | Report results Report results | 2.94 µg 300 µL |
| Identification by Western Blot Polyclonal anti-N1 NA ² Monoclonal anti-histidine tag ³ | Reactive Reactive | Reactive (Figure 2) Reactive (Figure 3) |
| Functional Activity Neuraminidase activity in a fluorescent enzymatic assay ⁴ | Report results | 3.65 x 10 ⁸ relative fluorescence units/hour/mg protein |
| Endotoxin Content (Limulus Amoebocyte Lysate Assay) | Report results | 144 EU/mg |
| Filtration | 0.2 µm filter-sterilized | 0.2 µm filter-sterilized |

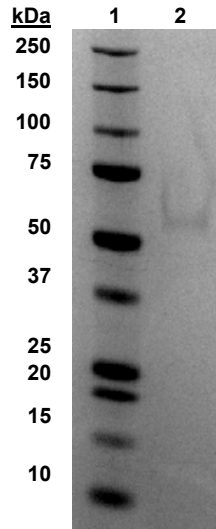
¹Pierce Protein Research Products (Catalog No. 23235)

²BEI Resources NR-3136, Polyclonal Anti-Influenza Virus N1 Neuraminidase (NA), A/New Jersey/8/1976 (H1N1), (antiserum, Goat) (1:1000 dilution)

³R&D Systems (Catalog No. MAB050) (IgG1) (1:1000 dilution)

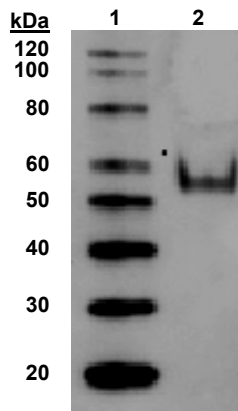
⁴Using serial dilutions of NR-42002 and 0.15 mM 2'-(4-methylumbelliferyl)-α-D-N-acetylneuraminic acid (4-MUNANA), Sigma (Catalog No. M8639), as described in Wetherall, N.T., et al. "Evaluation of Neuraminidase Enzyme Assays Using Different Substrates to Measure Susceptibility of Influenza Virus Clinical Isolates to Neuraminidase Inhibitors: Report of the Neuraminidase Inhibitor Susceptibility Network." *J. Clin. Microbiol.* 41 (2003): 742-750. PubMed: 12574276.

Figure 1: SDS-PAGE Analysis



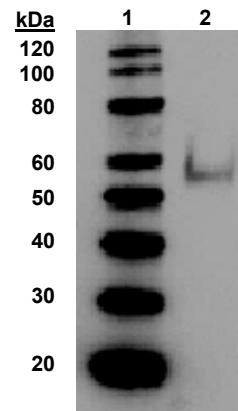
Lane 1: Precision Plus™ Protein Standard
Lane 2: NR-42002, 40 µL

Figure 2: Western Blot with Polyclonal Anti-N1 NA



Lane 1: MagicMark™ XP Protein Standard
Lane 2: NR-42002, 20 µL

Figure 3: Western Blot with Monoclonal Anti-Histidine Tag



Lane 1: MagicMark™ XP Protein Standard
Lane 2: NR-42002, 20 µL

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Technical Manager or designee, ATCC Federal Solutions

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