

Neuraminidase (NA) Protein with N-Terminal Histidine Tag from Influenza Virus, B/Florida/4/2006, Recombinant from Baculovirus

Catalog No. NR-19236

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

Product Description: A recombinant form of the neuraminidase (NA) protein from influenza virus B/Florida/4/2006 containing an N-terminal histidine tag was produced in Sf9 insect cells using a baculovirus expression vector system and was purified by nickel affinity chromatography.

Lot: 60371768

Manufacturing Date: 27SEP2011

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless, no particulate matter	Clear and colorless, no particulate matter
Purity by SDS-PAGE (Figure 1) and Densitometry Scan	Report results	Dominant band of ~ 55 kDa accounts for > 95% of total staining intensity
Identification by Western Blot Analysis Polyclonal anti-NA ¹ Monoclonal anti-histidine tag ²	Reactive Reactive	Reactive (Figure 2) Reactive (Figure 3)
Concentration by Bicinchoninic Acid Protein Assay³	Report results	180 µg/mL
Final Product Quantity per vial Volume per vial	Report results Report results	54 µg 300 µL
Functional Activity Neuraminidase activity in fluorescent enzymatic assay ⁴	Report results	1 x 10 ⁴ relative fluorescent units per ng

¹BEI Resources NR-3137

²Clontech (Cat. No. 631212) (IgG_{2a})

³Pierce Protein Research Products (Cat. No. 23235)

⁴Using serial dilutions of NR-19236 and 0.15 mM 2'-(4-methylumbelliferyl)-α-D-N-acetylneuraminic acid (4-MUNANA), Sigma (Cat. No. M8639) in a one hour assay, 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: 21 OCT 2011

Signature: *Dorothy C. Young*

Title: Technical Manager, BEI Authentication or designee

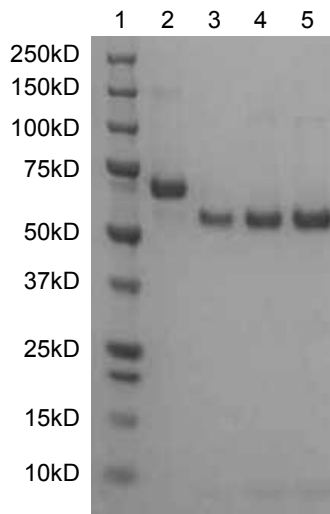
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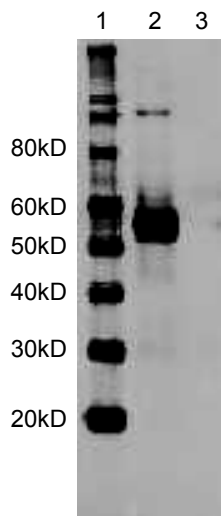


Figure 1 – SDS-PAGE



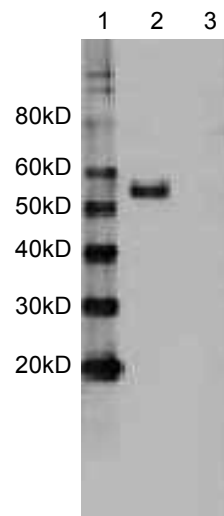
Lane 1: Precision Plus Protein™ All Blue Standards (BioRad 161-0373)
 Lane 2: 2 µg BSA
 Lane 3: 1 µg NR-19236
 Lane 4: 2 µg NR-19236
 Lane 5: 3 µg NR-19236

Figure 2 – Western Blot with Polyclonal Anti-NA



Lane 1: Magic Mark™ XP MW Marker (Invitrogen™ LC 5602)
 Lane 2: 1 µg NR-19236
 Lane 3: 1 µg BSA

Figure 3 – Western Blot with Monoclonal Anti-Histidine Tag



Lane 1: Magic Mark™ XP MW Marker (Invitrogen™ LC 5602)
 Lane 2: 1 µg NR-19236
 Lane 3: 1 µg BSA