

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

Catalog No. NR-19235

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Product Description:

A recombinant form of the N1 neuraminidase (NA) protein from influenza A virus, A/Puerto Rico/8/1934 (H1N1) was produced from NR-42002 lot 61759226 in-process material. The protein was expressed in Sf9 insect cells using a baculovirus expression vector system and the cellular lysate was pelleted. Inclusion bodies from the cellular lysate were purified by nickel affinity chromatography under denaturing conditions. The purified protein was refolded by dialysis and filtered. NR-19235 contains the predicted ectodomain coding region of the N1 neuraminidase (NA) protein from influenza A virus, A/Puerto Rico/8/1934 (H1N1) (GenPept: [ABD77678](#)) fused to a synthetic gene segment encoding an N-terminal octa-histidine tag followed by a 43 amino acid tetramerization domain from vasodilator-stimulated phosphoprotein (VASP) and a thrombin cleavage site, as described for the 1918 pandemic virus. NR-19235 lot 64123709 was vialied in 50 mM Tris-HCl (pH 8.5), 240 mM NaCl, 10 mM KCl, 1 mM EDTA, 0.5 M arginine, 0.5% Triton X-100 and 1 mM DTT.

Lot: 64123709

Manufacturing Date: 03MAY2016

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
SDS-PAGE Analysis	Protein band of interest represents > 95% of total staining intensity	Dominant band of approximately 55 kDa accounts for > 95% of total staining intensity (Figure 1)
Identification by Western Blot Analysis Polyclonal anti-N1 NA Monoclonal anti-histidine tag	Reactive Reactive	Reactive (Figure 2) ¹ Reactive (Figure 3) ²
Concentration by Bicinchonic Acid Assay Bovine Serum Albumin (standard)	Report results	0.954 mg per mL
Final Product Quantity per vial Volume per vial	Report results Report results	147 µg 154 µL
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	Report results	< 10.5 EU per mg
Filtration	0.2 µm sterile-filtered	0.2 µm sterile-filtered

¹Using a 1:1000 dilution of goat polyclonal anti-NA (A/New Jersey/08/76) (BEI Resources NR-3136) as primary antibody

²Using a 1:1000 dilution of mouse monoclonal anti-histidine tag (R&D Systems MAB050) as primary antibody

Figure 1: SDS-PAGE Analysis

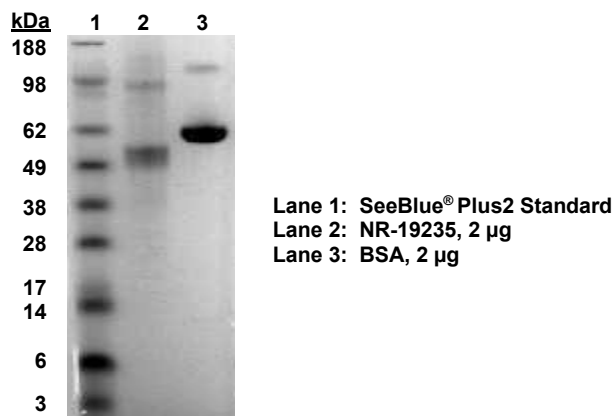
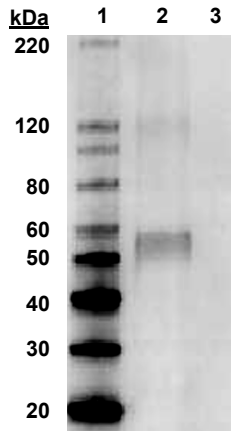
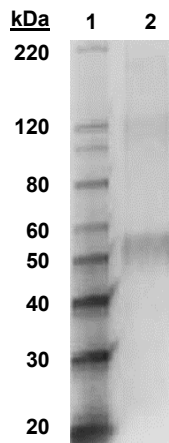


Figure 2: Western Blot with Polyclonal Anti-N1 NA



Lane 1: MagicMark™ XP Protein Standard
 Lane 2: NR-19235, 0.25 µg
 Lane 3: BSA, 0.25 µg

Figure 3: Western Blot with Monoclonal Anti-Histidine Tag



Lane 1: MagicMark™ XP Protein Standard
 Lane 2: NR-19235, 0.25 µg

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