

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

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) was produced in insect cells (High Five™) using a baculovirus expression vector system and 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 61242845 was vialled 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: 61242845

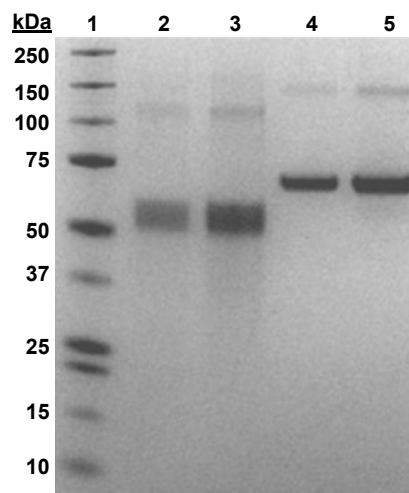
Manufacturing Date: 14SEP2012

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	0.703 mg per mL
Final Product Quantity per vial Volume per vial	Report results Report results	120 µg 170 µL
Filtration	0.45 µm sterile-filtered	0.45 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

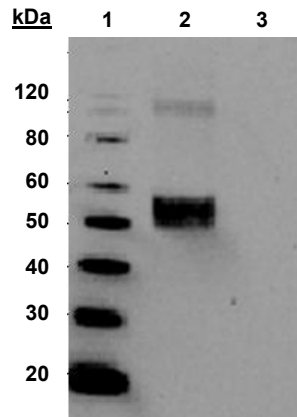
²Using a 1:1000 dilution of mouse monoclonal anti-histidine tag (R&D Systems MAB050) as primary antibody

Figure 1: SDS-PAGE Analysis



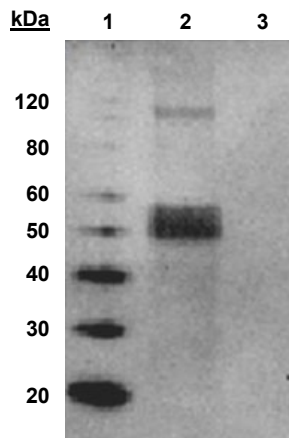
Lane 1: Precision Plus™ Protein Standard
Lane 2: NR-19235, 1 µg
Lane 3: NR-19235, 2 µg
Lane 4: BSA, 1 µg
Lane 5: BSA, 2 µg

Figure 2: Western Blot with Polyclonal Anti-N1 NA



Lane 1: MagicMark™ XP Protein Standard
 Lane 2: NR-19235, 0.5 µg
 Lane 3: BSA, 0.5 µg

Figure 3: Western Blot with Monoclonal Anti-Histidine Tag



Lane 1: MagicMark™ XP Protein Standard
 Lane 2: NR-19235, 0.5 µg
 Lane 3: BSA, 0.5 µg

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Technical Manager or designee, ATCC Federal Solutions

05 SEP 2022

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