

N7 Neuraminidase (NA) Protein with N-Terminal Histidine Tag from Influenza Virus, A/harbor seal/Germany/1/2014 (H10N7), Recombinant from Baculovirus

Catalog No. NR-50173

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

Product Description: A recombinant form of the N7 neuraminidase (NA) protein from influenza A virus, A/harbor seal/Germany/1/2014 (H10N7) 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: 70001055

Manufacturing Date: 20JUN2017

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
SDS-PAGE	Protein band of interest represents > 90% of total staining intensity	Dominant band of ~ 55 kDa accounts for ~ 90% of total staining intensity (Figure 1)
Identification by Western Blot Analysis Polyclonal anti-N7 NA ¹ Monoclonal anti-histidine tag ²	Reactive Reactive	Reactive (Figure 2) Reactive (Figure 3)
Concentration by Bradford Assay³	Report results	231 µg per mL
Final Product Quantity per vial Volume per vial	Report results Report results	116 µg 500 µL
Functional Activity Neuraminidase activity in fluorescent enzymatic assay	Report results	1.17 x 10 ⁹ relative fluorescence units per hour per mg protein ⁴
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	Report results	< 21.64 EU per mg
Filtration	0.2 µm sterile-filtered	0.2 µm sterile-filtered

¹BEI Resources NR-3144, Polyclonal Anti-Influenza Virus N7 (Neq1) Neuraminidase (NA), A/equine/Prague/1/1956 (H7N7), (antiserum, Goat) (1:1000 dilution)

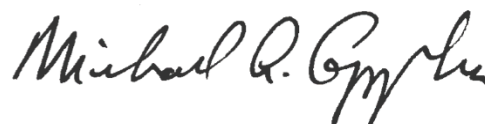
²R & D Systems® (Cat. No. MAB050) (IgG1) (1:1000 dilution)

³Using BSA as a standard

⁴Using serial dilutions of NR-50173 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: 29 AUG 2017

Signature:



BEI Resources Authentication

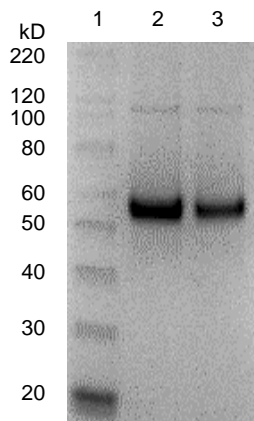
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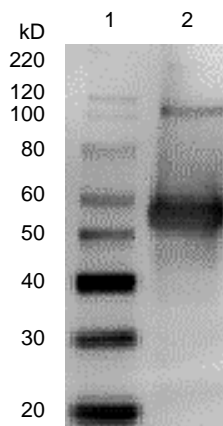


Figure 1: SDS-PAGE



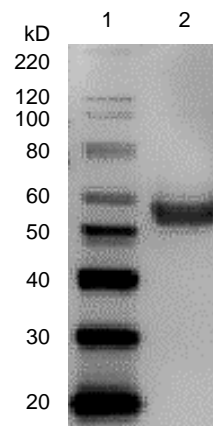
Lane 1: MagicMark™ XP Protein Standard
 Lane 2: NR-50173, 2.0 µg
 Lane 3: NR-50173, 1.0 µg

Figure 2: Western Blot with Polyclonal Anti-N7 NA



Lane 1: MagicMark™ XP Protein Standard
 Lane 2: NR-50173, 1.0 µg

Figure 3: Western Blot with Monoclonal Anti-Histidine Tag



Lane 1: MagicMark™ XP Protein Standard
 Lane 2: NR-50173, 1.0 µg