

**HA1 Hemagglutinin (HA) Protein with N-Terminal Histidine Tag from Influenza Virus, A/Brisbane/59/2007 (H1N1), Recombinant from Baculovirus**

**Catalog No. NR-13411**

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

**Product Description:**

NR-13411 is a recombinant HA1 form of the H1 hemagglutinin protein from influenza virus A/Brisbane/59/2007 (H1N1) containing an N-terminal histidine tag. NR-13411 lot 70052887 was produced in Sf9 insect cells using a baculovirus expression vector system and purified by immobilized metal affinity chromatography under denaturing conditions.

**Lot: 70052887**

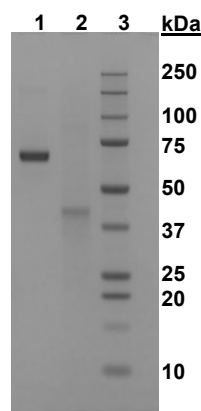
**Manufacturing Date: 22MAR2023**

TEST	SPECIFICATIONS	RESULTS
<b>Appearance</b>	Clear and colorless	Clear and colorless
<b>SDS-PAGE Analysis</b>	Protein band of interest represents > 90% of total staining intensity	Protein band of interest represents > 92% of total staining intensity (Figure 1)
<b>Concentration by Bradford Assay</b> Bovine Serum Albumin (standard)	Report results	0.087 mg/mL
<b>Vial Content</b> Amount per vial Volume per vial	Report results Report results	96 µg 1.1 mL
<b>Identification by Western Blot Analysis</b> Polyclonal anti-HA(H1N1) <sup>1</sup> Monoclonal anti-histidine tag <sup>2</sup>	Reactive Reactive	Reactive (Figure 2) Reactive (Figure 3)
<b>Filtration</b>	0.2 µm sterile-filtered	0.2 µm sterile-filtered

<sup>1</sup>Using a 1:1000 dilution of rabbit polyclonal anti-HA (H1N1) (Immune Technology IT-003-001) as primary antibody and a 1:1000 dilution of HRP-conjugated anti-rabbit IgG (R&D Systems HAF008) as secondary antibody

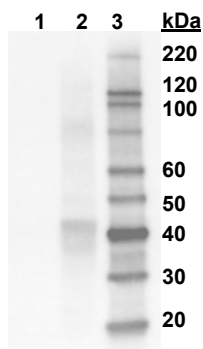
<sup>2</sup>Using a 1:1000 dilution of mouse monoclonal anti-histidine tag (R&D Systems MAB050-100) as primary antibody and a 1:1000 dilution of HRP-conjugated anti-mouse IgG (R&D Systems HAF007) as secondary antibody

**Figure 1: SDS-PAGE Analysis**



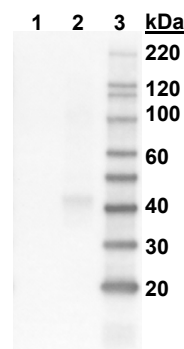
Lane 1: BSA (1.0 µg)  
Lane 2: NR-13411 (1.0 µg)  
Lane 3: Precision Plus Protein™ Standard

**Figure 2: Anti-HA Western Blot**



Lane 1: Negative control, BSA (1.0 µg)  
 Lane 2: NR-13411 (1.0 µg)  
 Lane 3: MagicMark XP Protein Standard

**Figure 3: Anti-Histidine Tag Western Blot**



Lane 1: Negative control, BSA (1.0 µg)  
 Lane 2: NR-13411 (1.0 µg)  
 Lane 3: MagicMark XP Protein Standard

/Sonia Bjorum Brower/  
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Technical Manager or designee, ATCC Federal Solutions

25 MAY 2023

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