

H5 Hemagglutinin (HA) Protein from Influenza A Virus, A/dairy cattle/Texas/24-008749-001-original/2024 (H5N1), Recombinant from Baculovirus

Catalog No. NR-59816

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

Product Description:

A recombinant form of the H5 Hemagglutinin (rHA) protein from Influenza A Virus, A/dairy cattle/Texas/24-008749-001-original/2024 (H5N1), was produced in Sf9 insect cells using a baculovirus expression system. The recombinant baculovirus-expressed H5 HA (rH5) protein was modified by the removal of the signal sequence and glycosylation, and the histidine-tagged protein was purified using Immobilized Metal Affinity Chromatography (IMAC).

Lot: 70080868

Manufacturing Date: 16APR2026

TEST	SPECIFICATIONS	RESULTS
Appearance	Report results	Clear and colorless
SDS-PAGE Analysis	Protein band of interest represents > 90% of total staining intensity	Dominant band of ~ 75 kDa accounts for 91.3% of total staining intensity (Figure 1)
Concentration by Bradford Assay¹	Report results	0.57 mg/mL
Final Product Quantity per vial Volume per vial	Report results Report results	125 µg 220 µL
Identification by Western Blot Monoclonal anti-histidine tag ² Polyclonal anti-H5 HA ³	Reactive Reactive	Reactive (Figure 2A) Reactive (Figure 2B)
Functional Activity by Hemagglutination⁴ 0.5% chicken red blood cells 0.5% turkey red blood cells	Report results Report results	Positive Positive
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	Report results	< 8.76 EU/mg
Filtration	0.2 µm sterile-filtered	0.2 µm sterile-filtered

¹Using bovine serum albumin (BSA) as a standard.

²Using a 1:5000 dilution of mouse monoclonal anti-histidine tag (R&D Systems MAB050) as primary antibody and a 1:5000 dilution of HRP-conjugated goat anti-mouse IgG (R&D Systems HAF007) as secondary antibody

³Using a 1:5000 dilution of goat polyclonal anti-H5 HA (BEI Resources NR-10514) as primary antibody and a 1:5000 dilution of HRP-conjugated anti-goat IgG (R&D Systems HAF109) as secondary antibody

⁴HA titer 7.4x10⁻³ mg/mL for 0.5% chicken and turkey RBCs at a 1:80 dilution.

Figure 1: SDS-PAGE Analysis

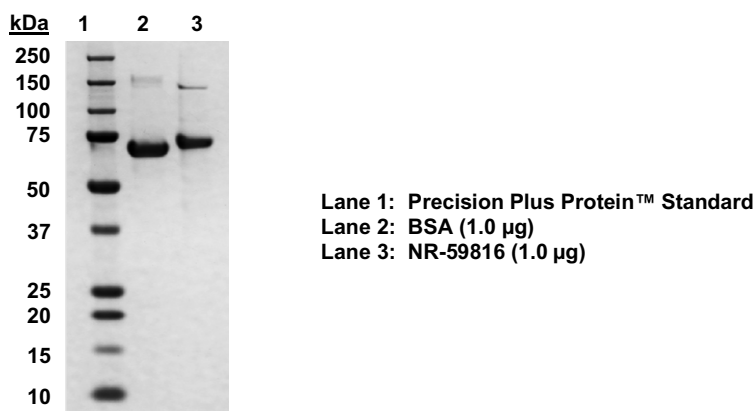
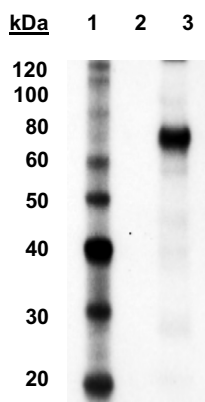


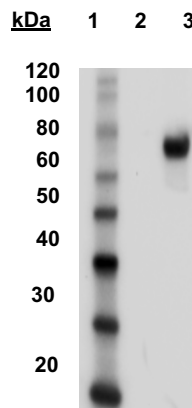
Figure 2: Western Blot Analysis

A: Monoclonal Anti-Histidine Tag



Lane 1: MagicMark™ XP Protein Standard
Lane 2: BSA (0.5 µg)
Lane 3: NR-59816 (0.5 µg)

B: Polyclonal Anti-H5



Lane 1: MagicMark™ XP Protein Standard
Lane 2: BSA (0.5 µg)
Lane 3: NR-59816 (0.5 µg)

/Sonia Bjorum Brower/
Sonia Bjorum Brower

Technical Manager or designee, ATCC Federal Solutions

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