

**H7 Hemagglutinin (HA) Protein from Influenza A Virus, A/feline/New York/16-040082-1/2016 (H7N2), Recombinant from Baculovirus**

**Catalog No. NR-51198**

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

**Product Description:**

A recombinant form of the H7 hemagglutinin (HA) protein from influenza A virus, A/feline/New York/16-040082-1/2016 (H7N2) was produced in Sf9 insect cells using a baculovirus expression system and purified by immobilized metal-affinity chromatography. The recombinant HA protein consists of the HA ectodomain, thrombin cleavage site, T4 foldon trimerization domain and a hexahistidine tag.

**Lot: 70064518**

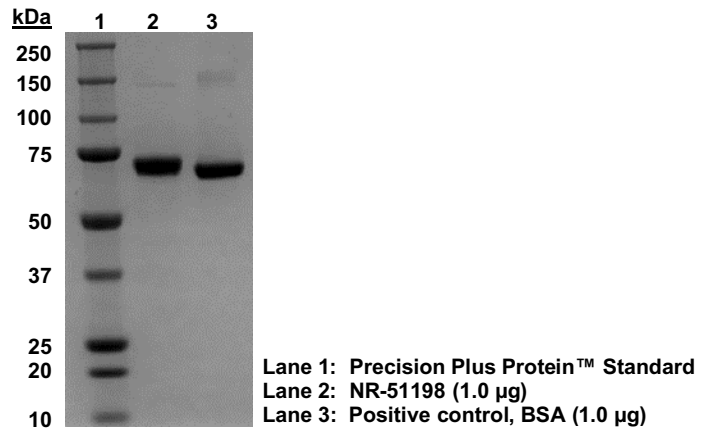
**Manufacturing Date: 08DEC2023**

TEST	SPECIFICATIONS	RESULTS
<b>Appearance</b>	Clear and colorless	Clear and colorless solution
<b>SDS-PAGE Analysis</b>	Protein band of interest represents > 90% of total staining intensity	Dominant band of ~ 70 kDa represents > 90% of total staining intensity (Figure 1)
<b>Identification by Western Blot Analysis</b> Polyclonal anti-H7 HA <sup>1</sup> Monoclonal anti-histidine tag <sup>2</sup>	Reactive Reactive	Reactive (Figure 2A) Reactive (Figure 2B)
<b>Concentration by Bradford Assay</b> Bovine Serum Albumin (standard)	Report results	0.65 mg/mL
<b>Final Product</b> Amount per vial Volume per vial	Report results Report results	97.5 µg 150 µL
<b>Functional Activity</b> Hemagglutination activity 0.5% chicken red blood cells 0.5% turkey red blood cells	Report results Report results	Positive (1:80) Positive
<b>Endotoxin Content (Limulus Amebocyte Lysate Assay)</b>	Report results	< 65.08 EU/mg

<sup>1</sup>Using a 1:1000 dilution of goat polyclonal anti-H7 HA (BEI Resources NR-48597) as primary antibody and a 1:1000 dilution of HRP-conjugated anti-goat IgG (R&D Systems HAF109) as secondary antibody

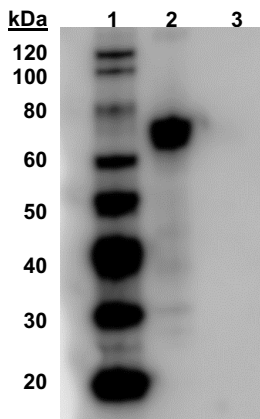
<sup>2</sup>Using a 1:4000 dilution of mouse monoclonal anti-histidine tag (R&D Systems MAB050) as primary antibody and a 1:4000 dilution of HRP-conjugated goat anti-mouse IgG (R&D Systems HAF007) as secondary antibody

**Figure 1: SDS-PAGE Analysis**

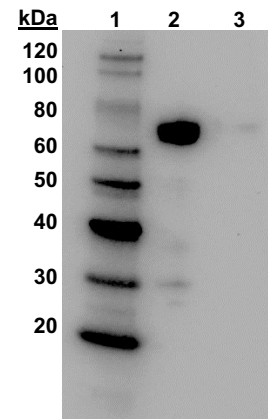


**Figure 2: Western Blot Analysis**

**A: Polyclonal Anti-H7 HA**



**B: Monoclonal Anti-Histidine Tag**



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12 MAR 2024

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