

H3 Hemagglutinin (HA) Protein with C-Terminal Histidine Tag from Influenza Virus, A/Perth/16/2009 (H3N2), Recombinant from Baculovirus

Catalog No. NR-49734

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

Product Description:

NR-49734 is a recombinant H3 hemagglutinin (HA) protein from influenza A virus, A/Perth/16/2009 (H3N2) containing a C-terminal octa-histidine tag. NR-49734 lot 70058355 was produced in Sf9 insect cells using a baculovirus expression vector system and purified using affinity chromatography.

Lot: 70058355

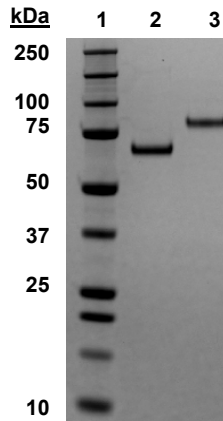
Manufacturing Date: 24FEB2023

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
SDS-PAGE Analysis	Protein band of interest represents > 90% of total staining intensity	Dominant band of ~ 80 kDa represents > 95% of total staining intensity (Figure 1)
Concentration by Bicinchoninic Acid Assay Bovine Serum Albumin (standard)	Report results	1.48 mg/mL
Vial Content Amount per vial Volume per vial	Report results Report results	148 µg 100 µL
Glycan Analysis by PNGase F Digestion	Size reduction of HA bands on SDS-PAGE	Size reduction of HA bands on SDS-PAGE (Figure 2)
Identification by Western Blot Analysis Monoclonal anti-histidine tag ¹ Monoclonal anti-H3 HA ²	Reactive Reactive	Reactive (Figure 3) Reactive (Figure 4)
Endotoxin Content (Limulus Amebocyte Lysate Assay)	Report results	< 3.38 EU/mg
Filtration	0.2 µm sterile-filtered	0.2 µm sterile-filtered

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

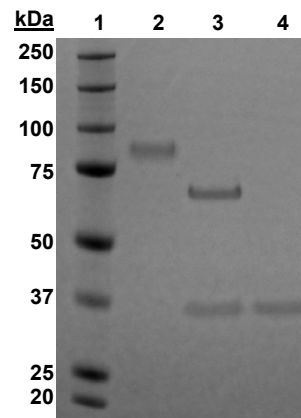
²Using a 1:1000 dilution of rabbit polyclonal anti-H3 HA (Immune Technology Corp. IT-003-Ref-H3(Wis/2005)) as primary antibody and a 1:1000 dilution of HRP-conjugated anti-rabbit IgG (R&D Systems HAF008) as secondary antibody

Figure 1: SDS-PAGE Analysis



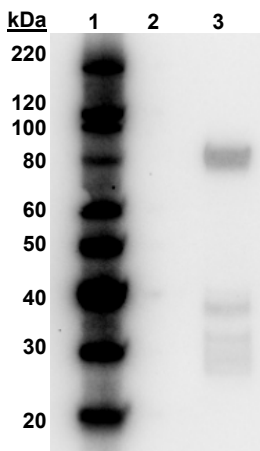
Lane 1: Precision Plus Protein™ Standard
 Lane 2: BSA (1.0 µg)
 Lane 3: NR-49734 (1.0 µg)

Figure 2: Glycan Analysis



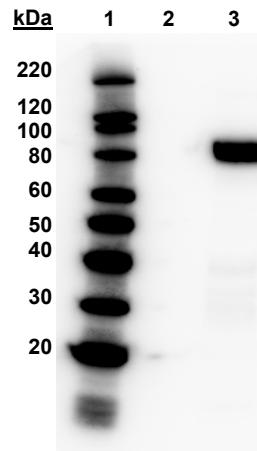
Lane 1: Precision Plus Protein™ Standard
 Lane 2: NR-49734 (1 µg)
 Lane 3: NR-49734 (1 µg) + PNGase F
 Lane 5: PNGase F (500 U)

Figure 3: Anti-H3 HA Western Blot



Lane 1: MagicMark XP Protein Standard
 Lane 2: NR-49734 (1.0 µg)
 Lane 3: Negative control, BSA (1.0 µg)

Figure 4: Anti-Histidine Tag Western Blot



Lane 1: MagicMark XP Protein Standard
 Lane 2: NR-49734 (1.0 µg)
 Lane 3: Negative control, BSA (1.0 µg)

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07JUN2023

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