

H5 Hemagglutinin (HA) Protein from Influenza Virus, A/duck/Laos/3295/2006 (H5N1), Recombinant from Baculovirus

Catalog No. NR-13509

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Contributor and Manufacturer:

St. Jude Children's Research Hospital (CEIRS)

Product Description:

H5 hemagglutinin (HA) protein from influenza virus A/duck/Laos/3295/2006 (H5N1)¹ is a full-length glycosylated recombinant protein that was produced in Sf9 insect cells using a baculovirus expression vector system.^{2,3} Recombinant H5 HA protein was purified using conventional chromatographic methods.

Material Provided:

Each vial of lot 58610769 contains approximately 550 µg (lyophilized) of purified recombinant H5 HA protein. When reconstituted with 0.5 mL of sterile distilled water, the product will be in PBS (pH 7.2). Note: This lot was inadvertently lyophilized. However, after reconstitution with 0.5 mL of sterile distilled water and incubation at 4°C for 18 hours, the product maintained its reactivity in HA and HI assays as well as its stability by SDS-PAGE.

Each vial of lot 61942042 contains approximately 385 µg of purified recombinant H5 HA protein in 10 mM phosphate buffer (pH 7.0) with 150 mM NaCl and 0.005% Tween-20.

Packaging/Storage:

Lot 58610769 was packaged aseptically in glass serum vials and lot 61942042 was packaged aseptically in screw-capped plastic cryovials. Lot 58610769 is provided frozen on dry ice and should be stored at -20°C to -40°C immediately upon arrival. Storage at colder temperatures is not recommended because the stopper may become brittle and compromise the seal.

Lot 61942042 is provided on refrigerated bricks and should be stored at 2°C to 8°C immediately on arrival. Lot 61942042 should not be frozen.

Functional Activity:

NR-13509 is biologically active in a hemagglutination assay with 0.5% chicken red blood cells. NR-13509 is specific to the H5 HA subtype of influenza virus as determined in serological hemagglutination inhibition (HI) assays. NR-13509 demonstrates reactivity in HI and ELISA assays within the H5 HA subtype. Applications: HI, ELISA, SDS-PAGE, antiserum preparation (immunogen).

Citation:

Acknowledgment for publications should read "The following

reagent was obtained through BEI Resources, NIAID, NIH: H5 Hemagglutinin (HA) Protein from Influenza Virus, A/duck/Laos/3295/2006 (H5N1), Recombinant from Baculovirus, NR-13509."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmb15/index.htm.

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References:

1. http://www.who.int/influenza/vaccines/virus/candidates_reagents/dev2_h5.pdf

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