

**H5 Hemagglutinin (HA) Protein from Influenza Virus, A/duck/Hunan/795/02 (H5N1), Recombinant from Baculovirus**

**Catalog No. NR-15631**

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**For research use only. Not for human use.**

**Contributor:**

NIH - Influenza Pandemic Preparedness in Asia Program

**Manufacturer:**

Protein Sciences Corporation

**Product Description:**

The H5 hemagglutinin (HA) protein from influenza virus A/duck/Hunan/795/02 (H5N1) is a full-length glycosylated recombinant protein that was produced in Sf9 insect cells using a baculovirus expression vector system.<sup>1,2</sup> The recombinant H5 HA protein was purified under conditions that preserve its biological activity and tertiary structure.

**Material Provided:**

Each vial contains approximately 300 µg (1 mL) of purified recombinant H5 HA protein in PBS containing 0.05% Tween-20. The concentration, expressed as µg/mL, is shown on the Certificate of Analysis.

**Packaging/Storage:**

Purified recombinant H5 HA protein was packaged aseptically, in screw-capped plastic cryovials. This product is provided on refrigerated bricks and should be stored at 2°C to 8°C immediately upon arrival. Do not freeze.

**Functional Activity:**

NR-15631 is biologically active in a hemagglutination assay with 0.5% chicken red blood cells. NR-15631 is specific to the H5 HA subtype of influenza virus as determined in serological hemagglutination inhibition (HI) assays. NR-15631 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 the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: H5 Hemagglutinin (HA) Protein from Influenza Virus, A/duck/Hunan/795/02 (H5N1), Recombinant from Baculovirus, NR-15631."

**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, 2007; see [www.cdc.gov/od/ohs/biosfty/bmb15/bmb15toc.htm](http://www.cdc.gov/od/ohs/biosfty/bmb15/bmb15toc.htm).

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NR-15631 is claimed in U.S. Patent Numbers 5,762,939 and 6,103,526, and the continuations, continuations-in-part, reissues and foreign counterparts thereof. Commercial use also requires a license from Protein Sciences Corporation, Meriden, Connecticut. For information call 203-686-0800.

**References:**

1. Smith, G. E., et al. Method for Producing Influenza Hemagglutinin Multivalent Vaccines Using Baculovirus. MG-PMC, LLC, assignee. U.S. Patent 5,762,939. 09 Jun. 1998.
2. Smith, G. E., et al. *Spodoptera frugiperda* Single Cell Suspension Cell Line in Serum-Free Media, Methods of Producing and Using. Protein Sciences Corporation, assignee. U.S. Patent 6,103,526. 15 Aug. 2000.

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