

H7 Hemagglutinin (HA) Protein from Influenza Virus, A/Netherlands/219/2003 (H7N7), Recombinant from Baculovirus

Catalog No. NR-2633

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Contributor:

St. Jude Children's Research Hospital (CEIRS)

Manufacturer:

Protein Sciences Corporation

Product Description:

The H7 hemagglutinin (HA) protein from influenza virus A/Netherlands/219/2003 (H7N7)¹⁻³ is a full-length glycosylated recombinant protein that was produced in Sf9 insect cells using a baculovirus expression vector system.^{1,2} The recombinant H7 HA protein was purified using conventional chromatographic techniques.

Material Provided:

Each vial contains approximately 160 µg of purified recombinant HA protein in phosphate buffered saline containing 0.005% Tween-20 (Lot 58520574) or approximately 140 µg in 10 mM sodium phosphate buffer containing 150 mM NaCl and 0.005% Tween-20, pH 7.4 (Lot 61332626). The concentration, expressed as µg/mL, is shown on the Certificate of Analysis for each lot.

Packaging/Storage:

Purified recombinant 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.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: H7 Hemagglutinin (HA) Protein from Influenza Virus, A/Netherlands/219/2003 (H7N7), Recombinant from Baculovirus, NR-2633."

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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NR-2633 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. Fouchier, R. A., et al. "Avian Influenza A Virus (H7N7) Associated with Human Conjunctivitis and a Fatal Case of Acute Respiratory Distress Syndrome." Proc. Natl. Acad. Sci. U. S. A. 101 (2004):1356-1361. PubMed: 14745020.
2. Koopmans, M., et al. "Transmission of H7N7 Avian Influenza A Virus to Human Beings During a Large Outbreak in Commercial Poultry Farms in the Netherlands." Lancet 363 (2004):587-593. PubMed: 14987882.
3. de Wit, E., et al. "Protection of Mice Against Lethal Infection with Highly Pathogenic H7N7 Influenza A Virus

- by Using a Recombinant Low-Pathogenicity Vaccine Strain." *J. Virol.* 79 (2005): 12401-12407. PubMed: 16160167.
4. 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.
 5. 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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