

Product Information Sheet for NR-10510

SUPPORTING INFECTIOUS DISEASE RESEARCH

H5 Hemagglutinin (HA) Protein from Influenza Virus, A/Vietnam/1203/2004 (H5N1), Recombinant from Baculovirus

Catalog No. NR-10510

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

For research use only. Not for human use.

Contributor:

BEI Resources

Manufacturer:

Protein Sciences Corporation, Meriden, Connecticut

Product Description:

H5 hemagglutinin (HA) protein¹ from influenza virus A/Vietnam/1203/2004 (H5N1)^{2,3} is a full-length glycosylated recombinant protein that was produced in Sf9 insect cells using a baculovirus expression vector system.^{4,5} Recombinant H5 HA protein was purified under conditions that preserve its biological activity and tertiary structure.

Material Provided:

Each vial contains approximately 110 to 130 micrograms (0.3 mL) of purified recombinant H5 HA protein in 10 mM sodium phosphate buffer, pH \sim 7.4, containing 150 mM sodium chloride and 0.005% Tween-20. The concentration, expressed as μ g/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 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: H5 Hemagglutinin (HA) Protein from Influenza Virus, A/Vietnam/1203/2004 (H5N1), Recombinant from Baculovirus, NR-10510."

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/bmbl5/index.htm.

Disclaimers:

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NR-10510 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:

- Hoffmann, E., et al. "Role of Specific Hemagglutinin Amino Acids in the Immunogenicity and Protection of H5N1 Influenza Virus Vaccines." <u>Proc. Natl. Acad. Sci.</u> USA 102 (2005): 12915-12920. PubMed: 16118277.
- Tran, T. H., et al. "Avian Influenza A (H5N1) in 10 Patients in Vietnam." N. Engl. J. Med. 350 (2004): 1179-1188. PubMed: 14985470.
- Govorkova, E. A., et al. "Lethality to Ferrets of H5N1 Influenza Viruses Isolated from Humans and Poultry." J. <u>Virol.</u> (2005): 2191-2198. PubMed: 15681421.
- 4. Smith, G. E., et al. Method for Producing Influenza Hemagglutinin Multivalent Vaccines Using Baculovirus.

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- MG-PMC, LLC, assignee. U.S. Patent 5,762,939. 09 Jun. 1998.
- 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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