

H6 Hemagglutinin (HA) Protein from Influenza Virus, A/teal/Hong Kong/W312/1997 (H6N1), Recombinant from baculovirus

Catalog No. NR-653

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Contributor and Manufacturer:

NIH - Influenza Pandemic Preparedness in Asia Program

Product Description:

Recombinant H6 hemagglutinin (HA) protein from influenza virus A/teal/Hong Kong/W312/1997 (H6N1)^{1,2} was produced in Sf9 insect cells using a baculovirus expression vector system.^{3,4} Recombinant H6 HA protein was purified using conventional chromatographic techniques.

Material Provided:

Each vial contains approximately 0.25 mL of purified recombinant H6 HA protein in 20 mM sodium phosphate (pH 7.0), 0.01% Tergitol NP-9, 200 mM sodium chloride and 0.01% β-mercaptoethanol. The concentration, expressed as μg/mL, is shown on the Certificate of Analysis.

Packaging/Storage:

Purified recombinant H6 HA protein was packaged aseptically, in screw-capped plastic cryovials. This product is provided on wet ice and should be stored at 2 to 8°C immediately upon arrival.

Functional Activity:

NR-653 is biologically active in a hemagglutination assay with 0.5% chicken red blood cells. NR-653 is specific to the H6 HA subtype of influenza virus as determined in serological hemagglutination inhibition (HI) assays. NR-653 demonstrates reactivity in HI and ELISA assays within the H6 HA subtype. Analysis by SDS-PAGE indicates that the purified recombinant H6 HA protein preparation may be unstable over time. Applications: HI, ELISA, SDS-PAGE, Western blot, antiserum preparation (immunogen).

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: H6 Hemagglutinin (HA) Protein from Influenza Virus, A/teal/Hong Kong/W312/1997 (H6N1), Recombinant from baculovirus, NR-653.”

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.

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NR-653 is claimed in U.S. Patent Numbers 5,762,939 and 6,103,526, and the continuations, continuations-in-part, re-issues 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. “Characterization of the Influenza A Virus Gene Pool in Avian Species in Southern China: Was H6N1 a Derivative or a Precursor of H5N1?” J. Virol. 74 (2000): 6309–6315. PubMed: 10864640.
- Chin, P. S., et al. “Molecular Evolution of H6 Influenza Viruses from Poultry in Southeastern China: Prevalence

- of H6N1 Influenza Viruses Possessing Seven A/Hong Kong/156/97 (H5N1)-Like Genes in Poultry.” J. Virol. 76 (2002): 507–516. PubMed: 11752141.
- 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.
 - 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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