

H2 Hemagglutinin (HA) Protein from Influenza Virus, A/Singapore/1/1957 (H2N2), Recombinant from baculovirus

Catalog No. NR-2668

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Contributor and Manufacturer:

St. Jude Children's Research Hospital (CEIRS)

Product Description:

Recombinant H2 hemagglutinin (HA) protein from influenza virus A/Singapore/1/1957 (H2N2)^{1,2} was produced in Sf9 insect cells using a baculovirus expression vector system.^{3,4} Recombinant H2 HA protein was purified using conventional chromatographic techniques.

Material Provided:

Each vial contains approximately 0.25 mL of purified recombinant H2 HA protein in PBS containing 0.005% Tween-20. The concentration, expressed as µg/mL, is shown on the Certificate of Analysis.

Packaging/Storage:

Purified recombinant H2 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.

Functional Activity:

NR-2668 is biologically active in a hemagglutination assay with 0.5% chicken red blood cells and by Western blot analysis. NR-2668 is specific to the H2 HA subtype of influenza virus as determined in serological hemagglutination inhibition (HI) and ELISA assays. **Applications:** HI, ELISA, Western blot, antiserum preparation (immunogen).

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: H2 Hemagglutinin (HA) Protein from Influenza Virus, A/Singapore/1/1957 (H2N2), Recombinant from baculovirus, NR-2668."

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-2668 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. Kanagaratnam, K. "Influenza Epidemic in Singapore, 1957." Public Health 72 (1958): 143-146. PubMed: 13567984.
2. Bucher, D. J., et al. "Comparative Study of Influenza Virus H2 (Asian) Hemagglutinins Isolated from Human and Avian Sources." Intervirology 14 (1980): 69-77. PubMed: 7193663.
3. 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.
4. 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.

- Schäfer, J. R., et al. "Origin of the Pandemic 1957 H2 Influenza A Virus and the Persistence of Its Possible Progenitors in the Avian Reservoir." *Virology* 194 (1993): 781–788. PubMed: 7684877.

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