H5 Hemagglutinin (HA) Protein from Influenza Virus, A/bar-headed goose/ Qinghai/1A/2005 (H5N1), Recombinant from Baculovirus

Catalog No. NR-9666

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

For research use only. Not for human use.

Contributor and Manufacturer:

St. Jude Children's Research Hospital (CEIRS)

Product Description:

H5 hemagglutinin (HA) protein from influenza virus A/bar-headed goose/Qinghai/1A/2005 (H5N1)[1] is a full-length glycosylated recombinant protein that was produced in Sf9 insect cells using a baculovirus expression vector system.[2,3] Recombinant H5 HA protein was purified under conditions that preserve its biological activity and tertiary structure. The complete coding sequence of the HA gene of A/bar-headed goose/Qinghai/1A/2005 (H5N1) has been determined (GenBank: DQ659327).[4]

Material Provided:

Each vial contains approximately 135 micrograms of purified recombinant H5 HA protein in PBS. 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.

Functional Activity:

NR-9666 is biologically active in a hemagglutination assay with 0.5% chicken red blood cells. NR-9666 is specific to the H5 HA subtype of influenza virus as determined in serological hemagglutination inhibition (HI) assays. NR-9666 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 BEI Resources, NIAID, NIH: H5 Hemagglutinin (HA) Protein from Influenza Virus, A/bar-headed goose/Qinghai/1A/2005 (H5N1), Recombinant from Baculovirus, NR-9666."

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-9666 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:

1. Zhou, J.-Y., et al. "Characterization of a Highly Pathogenic H5N1 Influenza Virus Derived from Bar-headed Geese in China." J. Gen. Virol. 87 (2006): 1823-1833. PubMed: 16760384.

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2. 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.
3. 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.
4. Hoffmann, E., R. J. Webby, and R. G. Webster. Direct Submission. GenBank: DQ659327.

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