

## H1 Hemagglutinin (HA) Protein from Influenza Virus, A/California/04/2009 (H1N1), Recombinant from Baculovirus

### Catalog No. NR-15258

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#### Contributor and Manufacturer:

St. Jude Children's Research Hospital (CEIRS)

#### Product Description:

H1 hemagglutinin (HA) protein from influenza virus A/California/04/2009 (H1N1)<sup>1,2</sup> is a full-length glycosylated recombinant protein that was produced in Sf9 insect cells using a baculovirus expression vector system.<sup>3,4</sup> Recombinant H1 HA protein was purified under conditions that preserve its biological activity and tertiary structure.

#### Material Provided:

Each vial contains approximately 150 µg of purified recombinant H1 HA protein in PBS containing 0.05% Tween-20. The concentration, expressed as µg/mL, is shown on the Certificate of Analysis.

#### Packaging/Storage:

Purified recombinant H1 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.

#### Functional Activity:

NR-15258 is not biologically active in a hemagglutination assay with 0.5% chicken red blood cells. NR-15258 demonstrates reactivity in ELISA and Western blot assays. Applications: ELISA, SDS-PAGE, Western blot, antiserum preparation (immunogen).

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: H1 Hemagglutinin (HA) Protein from Influenza Virus, A/California/04/2009 (H1N1), Recombinant from Baculovirus, NR-15258."

#### 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](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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NR-15258 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. Dawood, F. S., et al. "Emergence of a Novel Swine-Origin Influenza A (H1N1) Virus in Humans." N. Engl. J. Med. 360 (2009): 2605-2615. PubMed: 19423869. Erratum in N. Engl. J. Med. 361 (2009): 102.
2. Garten, R. J., et al. "Antigenic and Genetic Characteristics of Swine-Origin 2009 A(H1N1) Influenza Viruses Circulating in Humans." Science 325 (2009): 197-201. PubMed: 19465683.
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.

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