

## H7 Hemagglutinin (HA) Protein with C-Terminal Histidine Tag from Influenza Virus, A/Anhui/1/2013 (H7N9), Recombinant from Baculovirus

### Catalog No. NR-44365

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#### Contributor:

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#### Manufacturer:

BEI Resources

#### Product Description:

A recombinant form of the H7 hemagglutinin (HA) protein from influenza A virus, A/Anhui/1/2013 (H7N9)<sup>1</sup> containing a C-terminal histidine tag was produced in Sf9 insect cells using a baculovirus expression vector system and purified by nickel affinity chromatography. The predicted transmembrane and endodomain coding regions of the HA gene were replaced with a synthetic gene segment encoding a thrombin cleavage site, trimerizing (foldon) domain and six histidine residues, as described for several influenza A virus subtypes.<sup>2</sup> The full-length HA precursor protein is 560 residues (GISAID EpiFlu: EPI439507).

#### Material Provided:

Each vial contains 100 µg to 200 µg of purified recombinant HA protein in PBS (pH 7.4) with 50% glycerol. The protein content in µg and the concentration, expressed as µg/mL, are shown on the Certificate of Analysis.

#### Packaging/Storage:

Purified recombinant HA protein was packaged aseptically, in screw-capped plastic cryovials. This product is provided on blue ice and should be stored at -20°C immediately upon arrival.

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: H7 Hemagglutinin (HA) Protein with C-Terminal Histidine Tag from Influenza Virus, A/Anhui/1/2013 (H7N9), Recombinant from Baculovirus, NR-44365."

#### 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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#### References:

- Gao, R. et al. "Human Infection with a Novel Avian-Origin Influenza A (H7N9) Virus." N. Engl. J. Med. 368 (2013): 1888-1897. PubMed: 23577628.
- Krammer, F., et al. "A Carboxy-Terminal Trimerization Domain Stabilizes Conformational Epitopes on the Stalk Domain of Soluble Recombinant Hemagglutinin Substrates." PLoS One 7 (2012): e43603. PubMed: 22928001.

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