

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

Catalog No. NR-44010

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

For research use only. Not for human use.

Contributor:

BEI Resources

Manufacturer:

Chesapeake PERL, Inc.

Product Description:

A recombinant form of the H7 hemagglutinin (HA) protein from influenza virus A/Anhui/1/2013 (H7N9) was produced by baculovirus infection of *Trichoplusia ni* insect larvae and purified by standard chromatographic methods.¹ The predicted protein sequence is shown in Table 1.

Material Provided:

Each vial contains approximately 0.1 mg of purified recombinant H7 HA protein in 50 mM Tris-HCl and 100 mM NaCl with 15% glycerol (w/v), pH 8.0. The concentration, expressed as mg/mL, is shown on the Certificate of Analysis.

Packaging/Storage:

Purified recombinant H7 HA protein was packaged aseptically, in screw-capped plastic cryovials. This product is provided on dry ice and should be stored at -80°C or colder. Before opening, tap the vial gently to bring all material to the bottom of the tube. Repeated freeze-thaw cycles should be avoided.

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-44010.”

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:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

1. O’Connell, K. P., et al. “Production of a Recombinant Antibody Fragment in Whole Insect Larvae.” Mol. Biotechnol. 36 (2007): 44-51. PubMed: 17827537.

ATCC® is a trademark of the American Type Culture Collection.



1	DKICLGHHAV	SNGTKVNTLT	ERGVEVNVAT	ETVERTNIPR	ICSKGKRTVD
51	LGQCGLLGTI	TGPPQCDQFL	EFSADLIER	REGSDVCYPG	KFVNEEALRQ
101	ILRESGGIDK	EAMGFTYSGI	RTNGATSACR	RSGSSFYAEM	KWLLSNTDNA
151	AFPQMTKSYK	NTRKSPALIV	WGIHHSVSTA	EQTKLYGSGN	KLVTVGSSNY
201	QQSFVPSPGA	RPQVNGLSGR	IDFHWLMLNP	NDVTFSFNG	AFIAPDRASF
251	LRGKSMGIQS	GVQVDANCEG	DCYHSGGTII	SNLPPQNIDS	RAVGKCPRYV
301	KQRSLLLATG	MKNVPEIPKG	RGLFGAIAGF	IENGWEGLID	GWYGFRHQNA
351	QGEGTAADYK	STQSAIDQIT	GKLNRLIEKT	NQQFELIDNE	FNEVEKQIGN
401	VINWTRDSIT	EVWSYNAELL	VAMENQHTID	LADSEMDKLY	ERVKRQLREN
451	AEEDGTGCFE	IFHKCDDDCM	ASIRNNTYDH	SKYREEAMQN	RIQIDPVK SG
501	RLVPRGSPGS	GYPEAPRDG	QAYVRKDG EW	VLLSTFLGHH	HHHH

Other plasmid-derived amino acids – Residues 498 to 501, 508 and 538

HA Protein – Residues 1 to 497*

Thrombin cleavage sequence – Residues 502 to 507

Trimerizing domain – Residues 509 to 537

His Tag – Residues 539 to 544

*This represents amino acid residues 19-516 of the A/Anhui/1/2013 (H7N9) HA protein (GISAID Isolate ID# EPI_ISL_138739).