

H1 Hemagglutinin (HA) Protein with C-Terminal Histidine Tag from Influenza Virus, A/Czech Republic/32/2011 (H1N1)pdm09, Recombinant from Baculovirus

Catalog No. NR-42486

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Contributor:

BEI Resources

Manufacturer:

Chesapeake PERL, Inc.

Product Description:

A recombinant form of the H1 hemagglutinin (HA) protein from influenza virus A/Czech Republic/32/2011 (H1N1)pdm09 containing a C-terminal histidine tag was produced by baculovirus infection of *Trichoplusia ni* insect larvae and purified by standard chromatographic methods.¹ The predicted mature protein sequence is shown in Table 1.

Material Provided:

Each vial contains approximately 0.1 mg of purified recombinant H1 HA protein in 2X PBS, pH ~7.4. The concentration, expressed as mg/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 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: H1 Hemagglutinin (HA) Protein with C-Terminal Histidine Tag from Influenza Virus, A/Czech Republic/32/2011 (H1N1)pdm09, Recombinant from Baculovirus, NR-42486."

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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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.

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Table 1 – Predicted Mature Protein Sequence

1	DTLCIGYHAN	NSTDVTDTVL	EKNVTVTHSV	DLLEDKHNGK	LCKLRGVAPL
51	HLGKCNIAGW	ILGNPECESL	STASSWSYIV	ETSSSDNGTC	YPGDFIDYEE
101	LREQLSSVSS	FERFEIFPKT	SSWPNHDSNK	GVTAACPHAG	AKSFYKNLIW
151	LVKKGNSYPK	LNKSYINDKG	KEVLVLWGIH	HPSTSTDQQS	LYQNADAYVF
201	VGTSRYSKKF	KPEITIRPKV	RDQEGRMNY	WTLVEPGDKI	TFEATGNLVV
251	PRYAFAMERN	AGSGIIISDT	PVHDCNTTCQ	TPKGAINDSL	PFQNIHPITI
301	GKCPKYVKST	KLRLATGLRN	VPSIQSRGLF	GAIAGFIEGG	WTGMVDGWYG
351	YHHQNEQSGS	YAADLKSTQN	AIDKITNKVN	SVIEKMNTQF	TAVGKEFNHL
401	EKRIENLNKK	VDDGFLDIWT	YNAELLVLE	NERTLDYHDS	NVKNLYEKVR
451	NQLKNNAKEI	GNGCFEFYHK	CDNTCMESVK	NGTYDYPKYS	EEAKLNREEI
501	DGVKLESTRI	YQILAIYSTV	ASSLVLVVSL	GAISFWMCSN	GSLQCRICIG
551	<u>RGSHHHHHHH</u>				

Non-influenza amino acids are underlined