

H1 Hemagglutinin (HA) Protein with C-Terminal Histidine Tag from Influenza Virus, A/California/07/2009 (H1N1)pdm09, Recombinant from Baculovirus

Catalog No. NR-42635

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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/California/07/2009 (H1N1)pdm09 was produced by baculovirus infection of *Trichoplusia ni* insect larvae and purified by standard chromatographic methods.² Sequence information is available for influenza virus, A/California/07/2009 (H1N1)pdm09 at the [Influenza Research Database](#). 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 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 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/California/07/2009 (H1N1)pdm09, Recombinant from Baculovirus, NR-42635.”

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/bmb15/index.htm.

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References:

- 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	DLGSDTLCIG	YHANNSTDTV	DTVLEKNVTV	THSVNLLEDK	HNGKLCKLRG
51	VAPLHLGKCN	IAGWILGNPE	CESLSTASSW	SYIVETPSSD	NGTCYPGDFI
101	DYEELREQLS	SVSSFERFEI	FPKTSSWPNH	DSNKGVTAAAC	PHAGAKSFYK
151	NLIWLVKKGN	SYPKLSKSYI	NDKGKEVLVL	WGIHHPSTSA	DQQSLYQNAD
201	AYVFGSSRY	SKKFKPEIAI	RPKVRDQEGR	MNYYWTLVEP	GDKITFEATG
251	NLVVPRYAFA	MERNAGSGII	ISDTPVHDCN	TTCQTPKGAI	NTSLPFQNIH
301	PITIGKCPKY	VKSTKLRLAT	GLRNIPSIQS	RGLFGAIAGF	IEGGWTGMVD
351	GWYGYHHQNE	QGSGYAADLK	STQNAIDEIT	NKVNSVIEKM	NTQFTAVGKE
401	FNHLEKRIEN	LNKKVDDGFL	DIWTYNAELL	VLLENERTLD	YHDSNVKNLY
451	EKVRSQKNN	AKEIGNGCFE	FYHKCDNTCM	ESVKNGTYDY	PKYSEEAKLN
501	REEID SGRLV	PRGSPGSGYI	PEAPRDGQAY	VRKDGWVLL	STFLGHHHHH
551	<u>H</u>				

Other plasmid-derived amino acids – Residues 506 to 508, 515 and 545

HA Protein – Residues 1 to 505

Thrombin cleavage sequence – Residues 509 to 514

Trimerizing domain – Residues 516 to 544

His Tag – Residues 546 to 551