

**H1 Hemagglutinin (HA) Protein with N-Terminal Histidine Tag from Influenza Virus, A/Toulon/1173/2011 (H1N1)pdm09, Recombinant from Baculovirus**

**Catalog No. NR-34587**

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**For research use only. Not for human use.**

**Contributor:**

BEI Resources

**Manufacturer:**

Chesapeake PERL, Inc.

**Product Description:**

A recombinant form of the H1 hemagglutinin (HA) protein from influenza virus A/Toulon/1173/2011 (H1N1)pdm09 was produced by baculovirus infection of *Trichoplusia ni* insect larvae and purified by standard chromatographic methods.<sup>1</sup> The predicted 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) and 0.05% polysorbate 20 (w/v). 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 N-Terminal Histidine Tag from Influenza Virus, A/Toulon/1173/2011 (H1N1)pdm09, Recombinant from Baculovirus, NR-34587."

**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:**

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 Protein Sequence					
1	<u>HHHHHHHHGR</u>	<u>G</u> DTLCIGYHA	NNSTD	TVDTV	LEKNVTVTHS VNLLEDKHNG
51	KLCKLRGVAP	LHLGKCNIAG	WILGN	PECES	LSTASSWSYI VETSSSDNGT
101	CYPGDFIDYE	ELREQLSSVS	SFERFE	IFPK	TSSWPNHDSN KGVTTACPHA
151	GAKSFYKNLI	WLVKKGNSYP	KLSKSY	INDK	GKEVLVLWGI HHPPTSADQQ
201	SLYQNADAYV	FVGTSRYSKK	FKPEIA	IRPK	VRDQEGRMNY YWTLVEPGDK
251	ITFEATGNLV	VPRYAFAMER	NAGSGIII	SD	TPVHDCNTTC QTPKGAINTS
301	LPFQNIHPIT	IGKCPKYVKS	TKLRLAT	GLR	NVPSIQSRGL FGAIAGFIEG
351	GWTGMVDGWY	GYHHQNEQGS	GYAADLK	STQ	NAIDEITNKV NSVIEKMNTQ
401	FTAVGKEFNH	LEKRIENLNK	KVDDGF	LDIW	TYNAELLVLL ENERTLDYHD
451	SNVKNLYEKV	RSQKNNAKE	IGNGCF	EYFH	KCDNTCMESV KNGTYDYPKY
501	SEEAKLNREE	IDGVKLESTR	IYQILAI	YST	VASSLVLVVS LGAISFWMCS
551	NGSLQCRICI				

Non-influenza amino acids are underlined