

HA1 Hemagglutinin (HA) Protein with N-Terminal Histidine Tag from Influenza Virus, A/Brisbane/59/2007 (H1N1), Recombinant from Baculovirus

Catalog No. NR-13411

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Contributor and Manufacturer:

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Product Description:

The HA1 form of the H1 hemagglutinin (HA) protein from influenza virus A/Brisbane/59/2007 (H1N1) containing an N-terminal histidine tag was produced in Sf9 insect cells using a baculovirus expression vector system¹ and was purified by immobilized metal affinity chromatography under denaturing conditions. The protein was re-folded into a soluble form but may aggregate upon storage. The predicted protein sequence is shown in Table 1. Sequence information is available for Influenza A virus A/Brisbane/59/2007 (H1N1) at the [Influenza Research Database](#).

Material Provided:

Each vial contains approximately 20 to 60 µg of purified recombinant HA1 protein in 50 mM sodium phosphate buffer (pH 7.4) containing 0.01% Tergitol NP-9 and 10% glycerol. The protein content in µg and the concentration, expressed as µg/mL, are shown on the Certificate of Analysis for each lot.

Packaging/Storage:

Purified recombinant HA1 protein was packaged aseptically, in screw-capped plastic cryovials. This product is provided on refrigerated bricks and should be stored at 2°C to 8°C immediately upon arrival. Do not freeze.

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: HA1 Hemagglutinin (HA) Protein with N-Terminal Histidine Tag from Influenza Virus, A/Brisbane/59/2007 (H1N1), Recombinant from Baculovirus, NR-13411.”

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. Nwe, N., et al. “Expression of Hemagglutinin Protein from the Avian Influenza Virus H5N1 in a Baculovirus/Insect Cell System Significantly Enhanced by Suspension Culture.” [BMC Microbiol.](#) 6 (2006): 16. PubMed: 16504108.

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Table 1 – Predicted Protein Sequence

1	MSYYHHHHH	DYDIPTTENL	YFQGITSLYK	KAGSAAAPFT	MDTICIGYHA
51	NNSTDTVDTV	LEKNVTVTHS	VNLLNSHNG	KLCLLKGIAP	LQLGNCSVAG
101	WILGNPECEL	LISKESWSYI	VEKPNPENG	CYPGHFADYE	ELREQLSSVS
151	SFERFEIFPK	ESSWPNHTVT	GVSASC SHNG	ESSFYRNLLW	LTGKNGLYPN
201	LSKSYANNKE	KEVLVLWGVH	HPPNIGDQKA	LYHTENAYVS	VVSSHYSRKF
251	TPEIAKRPKV	RDQEGRINYY	WTLLEPGDTI	IFEANGNLIA	PRYAFALSRG
301	FGSGIINSNA	PMDKCDAKCQ	TPQGAINSSL	PFQNVHPVTI	GECPKYVRSA
351	KLRMVTGLRN	IPSIQSR			

Plasmid-derived amino acids, including his tag – Residues 1 to 41
HA1 protein – Residues 42 to 367*

*This represents amino acid residues 18-343 of the A/Brisbane/59/07 (H1N1) HA protein (GenPept: ACA28844).