

H3 Hemagglutinin (HA) Protein with C-Terminal Histidine Tag from Influenza Virus, A/Perth/16/2009 (H3N2), Recombinant from Baculovirus

Catalog No. NR-42974

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Contributor:

BEI Resources

Manufacturer:

Chesapeake PERL, Inc.

Product Description:

A recombinant form of the H3 hemagglutinin (HA) protein from influenza virus A/Perth/16/2009 (H3N2) 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 H3 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 H3 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: H3 Hemagglutinin (HA) Protein with C-Terminal Histidine Tag from Influenza Virus, A/Perth/16/2009 (H3N2), Recombinant from Baculovirus, NR-42974.”

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:

- 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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1	ADPMQKLPGN	DNSTATLCLG	HHAVPNGTIV	KTITNDQIEV	TNATELVQSS
51	STGEICDSPH	QILDGKNCTL	IDALLGDPQC	DGFQNKKDWL	FVERSKAYSN
101	CYPYDVPDYA	SLRSLVASSG	TLEFNESFN	WTGVTQNGTS	SACIRRSKNS
151	FFSRLNWLTH	LNFKYPALNV	TMPNNEQFDK	LYIWGVHHPG	TDKDQIFLYA
201	QASGRITVST	KRSQQTVSPN	IGSRPRVRNI	PSRISIWYTI	VKPGDILLIN
251	STGNLIAPRG	YFKIRSGKSS	IMRSDAPIGK	CNSECITPNG	SIPNDKPFQN
301	VNRITYGACP	RYVKQNTLKL	ATGMRNVPEK	QTRGIFGAIA	GFIENGWEGM
351	VDGWYGFHRHQ	NSEGRGQAAD	LKSTQAAIDQ	INGKLNRLIG	KTNEKFHQIE
401	KEFSEVEGRI	QDLEKYVEDT	KIDLWSYNAE	LLVALENQHT	IDLTDSEMNK
451	LFEKTKKQLR	ENAEDMGNGC	FKIYHKCDNA	CIGSIRNGTY	DHDVYRDEAL
501	NNRFQIK SGR	LVPRGSPGSG	YIPEAPRDGQ	AYVRKDGEWV	LLSTFLG <u>HHH</u>
551	<u>HHH</u>				

Other plasmid-derived amino acids – Residues 1 to 3, 508 to 510, 517 and 547

HA Protein – Residues 4 to 507

Thrombin cleavage sequence – Residues 511 to 516

Trimerizing domain – Residues 518 to 546

His Tag – Residues 548 to 553