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

Catalog No. NR-49734
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Contributor and Manufacturer:
BEI Resources

Product Description:
A recombinant form of the H3 hemagglutinin (HA) protein from influenza A virus, A/Perth/16/2009 (H3N2) containing a C-terminal histidine tag was produced in Sf9 insect cells using a baculovirus expression vector system and was purified by nickel affinity chromatography. The predicted protein sequence is shown in Table 1. The HA protein includes a C-terminal peptide containing a thrombin cleavage site, trimerizing (foldon) domain and eight histidine residues. The full-length HA precursor protein is 566 residues (GenPept: AHX37629). Note that NR-49734 does not exhibit hemagglutination activity.

Material Provided:
Each vial contains 50 µg to 150 µg of purified recombinant HA protein in 50 mM Tris-HCl (pH 8) with 100 mM NaCl and 50% glycerol. The concentration, expressed as µg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:
Purified recombinant HA protein was packaged aseptically, in screw-capped plastic cryovials. This product is provided on ice bricks and should be stored at -80°C immediately upon arrival.

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-49734.”

Biosafety Level: 1

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References:

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Table 1 – Predicted Protein Sequence

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<tr>
<th>Residue</th>
<th>Sequence</th>
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<tr>
<td>1</td>
<td>ADPMQKLPGN DNSTATLCLG HHAVPNGTIV KTITNDQIEV TNATELVQSS</td>
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<td>51</td>
<td>STGEICDSPH QILDGNKNTL IDALLGDPQC DGFQNKWDL FVERSKAYSN</td>
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<tr>
<td>101</td>
<td>CYPYDVPDYA SLRSLVASSG TLEFNESFN WTGVQNGTS SACIRRKNNS</td>
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<tr>
<td>151</td>
<td>FFSRLNWLTH LNFKYPALNV TMPNEQFDK LYIYGVHHPG TDKDQIFLYA</td>
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<tr>
<td>201</td>
<td>QASGRITVST KRSQTVSPN IGSRPRVRNI PSRISIYWTI VKPGDILLIN</td>
</tr>
<tr>
<td>251</td>
<td>STGNLIAPRG YFIRSGKSS IMRSDAPIGK CNSECITPNG SIVNDFKFQN</td>
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<tr>
<td>301</td>
<td>VNRTYGACP RYVKQNTLKL ATGMRNVPEK QTRGLGAIA GFIENGWEGM</td>
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<td>351</td>
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<tr>
<td>401</td>
<td>KEFSEVEGRI QDLEKYVEDT KIDLWSYNAE LLVALENQHT IDLTDSEMNK</td>
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<tr>
<td>451</td>
<td>LFETKKQLLR ENAEDMGNGC FKIYHKCDNA CIGSIRMGTY DHDVYRDEAL</td>
</tr>
<tr>
<td>501</td>
<td>NNRFQIKSGR LVPRGS PGSG YIPEAPRDGQ AYVRKDGEWV LLSTFLGHH</td>
</tr>
<tr>
<td>551</td>
<td>HHHHH</td>
</tr>
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</table>

Plasmid-derived amino acids – Residues 1 to 4, 508 to 510, 517, 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 555

*This represents amino acid residues 17-519 of the A/Perth/16/2009 (H3N2) HA protein (GenPept: AHX37629).