H7 Hemagglutinin (HA) Protein with C-Terminal Histidine Tag from Influenza Virus, A/Anhui/1/2013 (H7N9), Recombinant from Baculovirus

Catalog No. NR-44010
This reagent is the tangible property of the U.S. Government.

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Contributor: BEI Resources

Manufacturer: Chesapeake PERL, Inc.

Product Description:
A recombinant form of the H7 hemagglutinin (HA) protein from influenza virus A/Anhui/1/2013 (H7N9) was produced by baculovirus infection of Trichoplusia ni insect larvae and purified by standard chromatographic methods. The predicted protein sequence is shown in Table 1.

Material Provided:
Each vial contains approximately 0.1 mg of purified recombinant H7 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 H7 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: H7 Hemagglutinin (HA) Protein with C-Terminal Histidine Tag from Influenza Virus, A/Anhui/1/2013 (H7N9), Recombinant from Baculovirus, NR-44010."

Biosafety Level: 1

Disclaimers:
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References:

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Table 1 - Predicted Protein Sequence

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<thead>
<tr>
<th>Residue</th>
<th>Sequence</th>
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<tr>
<td>1</td>
<td>DKICLGHHAV SNGTKVNTLT ERGVEVVNAT ETVERTNIR ICSKGKRTVD</td>
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<tr>
<td>51</td>
<td>LGQCGLLLGTI TGPPQCDQFL EFSADLIIER REGSDVCYPG KFVNEEALRQ</td>
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<tr>
<td>101</td>
<td>ILRESGGIDK EAMGFYSGI RTNGATSACR RSGSSFYAEKLWLSNTDNA</td>
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<tr>
<td>151</td>
<td>AFPQMTKSYK NTRKSPALIV WGIHHSVSTA EQTKLYGSNG KLVTVGSSNY</td>
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<tr>
<td>201</td>
<td>QQSFPSPPGA RPQVNGLSGR IDFHWLMLNP NDTVTFNSFG AFIAPPrASF</td>
</tr>
<tr>
<td>251</td>
<td>LGKSMGtqIS GVQVdANCEG DCYHSGGTII SNLPFQNIIDS RAVGKCPRYV</td>
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<td>301</td>
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<td>401</td>
<td>VINWTRDSIT EVWSYNAELL VAMENQHTID LADSEMALKY ERVKRQLREN</td>
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<tr>
<td>451</td>
<td>AEEqDTGCqFE IFqHKcDDCM ASIRNqTTYDH SKYREEAMqN RIqIDPVKSG</td>
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<tr>
<td>501</td>
<td>RLVPRGSPQS GYIPEAPRDG QAYVRKDGEW VLLSTFLGHH HHHH</td>
</tr>
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</table>

Other plasmid-derived amino acids – Residues 498 to 501, 508 and 538
HA Protein – Residues 1 to 497*
Thrombin cleavage sequence – Residues 502 to 507
Trimerizing domain – Residues 509 to 537
His Tag – Residues 539 to 544

*This represents amino acid residues 19-516 of the A/Anhui/1/2013 (H7N9) HA protein (GISAID Isolate ID# EPI_ISL_138739).