

## Recombinant H7N9(A/Shanghai/1/2013(H7N9)) HA protein(Met1-Val524), His-tagged

**Cat. No.** HA-621V    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Recombinant Influenza A virus (A/Shanghai/1/2013(H7N9)) HA(Met1-Val524) was expressed in Insect Cells with a C-terminal polyhistidine tag.                                                                                                                                |
| <b>Species</b>          | H7N9                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 1-524 a.a.                                                                                                                                                                                                                                                                |
| <b>Form</b>             | Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                            |
| <b>Bio-activity</b>     | 1. Measured by its ability to agglutinate guinea pig red blood cells. HA titer is 0.1-0.5 µg/mL for 1% GRBC. It also agglutinates chick red blood cells. 2. Measured by its ability to bind with Neu5Aca2-3Galb1-4GlcNAcb-PAA-biotin (01-077) using the Octet RED System. |
| <b>Molecular Mass</b>   | The recombinant hemagglutinin of Influenza A virus (A/Shanghai/1/2013(H7N9)) comprises 517 amino acids and has a predicted molecular mass of 57.7 kDa. The apparent molecular mass of the protein is approximately 55-59 kDa in SDS-PAGE under reducing conditions.       |
| <b>Endotoxin</b>        | < 1.0 EU per µg of the protein as determined by the LAL method                                                                                                                                                                                                            |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 90 % as determined by SDS-PAGE                                                                                                                                                                                                                |
| <b>Storage</b>        | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                   |

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