Recombinant H7N9 NP, His-tagged

Cat. No. NP-457H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the Influenza A virus (A/Anhui/1/2013(H7N9)) (ADK98484.1) nucleoprotein protein (Met1-Asn498) was expressed with a C-terminal polyhistidine tag.
Species	H7N9
Source	Insect Cells
ProteinLength	Met1-Asn498
Description	H7N9 is a subtype of Influenza virus A. On April 1, 2013, the World Health Organization (WHO) first reported 3 human infections with a new influenza A (H7N9) virus in China. Since then, additional cases have been reported. This new H7N9 virus is an avian (bird) influenza (flu) virus. Influenza (flu) is a respiratory infection in mammals and birds. The virus is divided into three main types (Influenza A, Influenza B, and Influenza C). The influenza A genome contains 11 genes on eight pieces of RNA, encoding for 11 proteins: Hemagglutinin (HA), Neuraminidase (NA), Nucleoprotein (NP), M1, M2, NS1, NS2 (NEP), PA, PB1, PB1-F2 and PB2. Influenza A virus nucleoprotein (NP) forms homo-oligomers and multiple copies of NP wrap around genomic RNA, along with a trimeric polymerase making up ribonucleoprotein (RNP) complex. Nucleoprotein (NP) is composed of a head and a body domain and a tail loop / linker region. The head domain is more conserved than the body domain. Nucleoprotein (NP) oligomerization is mediated by the insertion of the non-polymorphic and structurally conserved tail loop of one NP molecule to a groove of

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	another NP. The different form of Nucleoprotein (NP) oligomers is due to the flexibility of the polymorphic linkers that join the tail loop to the rest of the protein. The RNA binding property of NP is known to involve the protruding element and the flexible basic loop between the head and body domains, both having high degree of primary sequence conservation.
Form	Lyophilized from sterile PBS, pH7.4.
Molecular Mass	The recombinant nucleoprotein protein of Influenza A virus (A/Anhui/1/2013(H7N9)) comprises 509 amino acids and has a predicted molecular mass of 57.8 kDa. The apparent molecular mass of the protein is approximately 55 kDa in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 eu per μg of the protein as determined by the LAL method.
Purity	>95 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Reconstitution	Hardcopy of COA with reconstitution instruction is sent along with the products.

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