

Recombinant Influenza A H3N2 (A/Switzerland/9715293/2013) NP Protein (Met1-Asn498), His-tagged

Cat. No. NP-756H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Influenza A H3N2 (A/Switzerland/9715293/2013) NP (Nucleoprotein) Protein (translated amino acids of EPI541652) (Met1-Asn498) was produced by Baculovirus-Insect Cells expression system. This protein was expressed with a polyhistidine tag at the C-terminus.
Species	H3N2
Source	Insect Cells
ProteinLength	Met1-Asn498
Description	Influenza A viral nucleoprotein (NP) plays a critical role in virus replication and host adaptation. The influenza A virus nucleoprotein (NP) is an essential multifunctional protein that encapsidates the viral genome and functions as an adapter between the virus and the host cell machinery. NPs from all strains of influenza A viruses contain two nuclear localization signals (NLSs): a well-studied monopartite NLS1 and a less-characterized NLS2, thought to be bipartite.
Predicted N Terminal	Met
Form	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, 10 %glycerol, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

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Molecular Mass	The recombinant nucleoprotein of Influenza A virus (A/Switzerland/9715293/2013(H3 N2)) consists of 509 amino acids and predicts a molecular mass of 57.3 kDa.
Endotoxin	< 1.0 EU per µg 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 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.