

Cat # RP-638      Recombinant Hemagglutinin-Influenza A Virus H1N1 New Caledonia 20/99      **Size:**  2 ug

H1N1 is a subtype specie of Influenza A virus. H1N1 Influenza Virus has mutated into various strains such as the Spanish Flu strain, mild human flu strains, endemic pig strains, and various strains found in birds. The Influenza A Virus is a globular particle about 100nm in diameter, sheathed in a lipid bilayer derived from the plasma membrane of its host. Studded in the lipid bilayer are two integral membrane proteins some 500 molecules of hemagglutinin ("H") and some 100 molecules of neuraminidase ("N"). Within the lipid bilayer are 3000 molecules of matrix protein and 8 pieces of RNA. Each of the 8 RNA molecules is associated with many copies of a nucleoprotein, several molecules of the three subunits of its RNA polymerase some "non-structural" protein molecules of uncertain function. Baculovirus Insect Cells. it is supplied as sterile filtered colorless solution.

**Source:** Recombinant Full-Length H1N1 A/New Caledonia/20/99 is glycosylated with N-linked sugars, produced using baculovirus vectors in insect cells and its Mw is 57,500 dalton. The insect cells infected with A9440.1a recombinant baculovirus expressing recombinant H1N1 A/New Caledonia/20/99. H1N1 New Caledonia shows 90% similarity to the A/PR/8/34 amino acid sequence.

**Application and Suggested Dilutions:** The Recombinant H1N1 A/New Caledonia/20/99 solution 10mM Sodium phosphate, pH 7.2, 150mM NaCl, and 0.005% Tween 20. Greater than 90.0% as determined by: Analysis by SDS-PAGE, HA1 and HA2 bands are observed using SDS-PAGE under reducing conditions. Users must optimize the appropriate concentration and conditions for each assay.

**Immunological Activity:**

Western-Blot 0.1µg -1µg per strip, ELISA 1µg/Well.

**Storage and Stability:** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4oC for ~1 week or aliquots in suitable size and store at -20oC for long term storage..

This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals

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