

Influenza A H5N1 (A/AW/SC/2021) Pseudovirus

Influenza A H5N1 (A/AW/SC/2021) Pseudovirus, MLV-based

CATALOG #
AAA62280

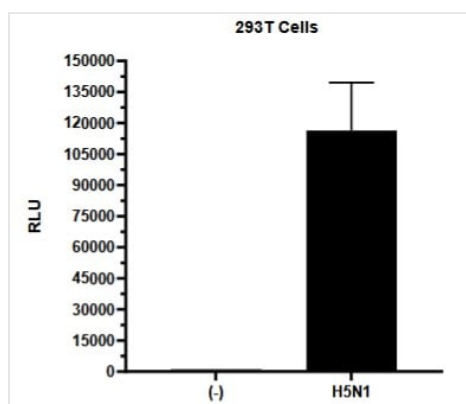
PRODUCT SYNONYMS

Influenza A H5N1 (A/AW/SC/2021); Influenza A H5N1 (A/AW/SC/2021) Pseudovirus; MLV-based; Influenza A H5N1 (A/AW/SC/2021) pseudovirus

PRODUCT SPECIFICATIONS

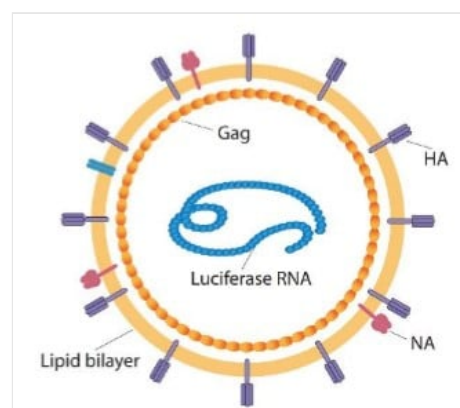
Form/Format	1 mL; 5mL (for one multiplate)
Cell Infection	- Count 293T cells to be infected and seed ~20K cells per well into 96-well plates (50 µl per well) DMEM with 10% HyClone FetalClone II Serum (no antibiotics) or 5K cells per well into 384-well plates (15 µl per well). - Culture cells overnight to make sure the cells stably adhere to the plates. - On the 2nd day, remove media, add 50 µl this pseudovirus* into each well (12.5 µl for 384-well plate). Spin at 700 rpm for 15 min at 4 degree C. *Note: thaw the pseudoviral particles quickly in the room temperature water (< 30 minutes, do not shake) and use right away. - Incubate for 2 hrs at 37 degree C. - Add 50 µl DMEM with 10% FC into each well (12.5 µl for 384-well plates). - Incubate for 42 hrs at 37 degree C.
Measurement of Luciferase Activity in Infected cells	- No need to remove supernatant. Add 100 µl luciferase assay reagent (25 µl for 384-well plates). - Read in a luminescence plate reader and record the data.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Upon receiving it, store at -70 degree C right away. Thaw* before immediate use. *Note: read the instruction for thawing in the following protocol carefully. Do not aliquot and refreeze. Shelf Life: Six months from the date of shipping when stored at -70 degree C

IMAGES



Application Data

Figure 2. Pseudoviral Particle (PP) Infection Assays (Pseudoviral particles on 293T cells in 96-well format; Luminescence plate reader: BioTek Synergy 2, gain 255) H5N1: MLV-based pseudovirus w/ influenza A H5N1 proteins (AAA62280) (-): Negative control (MLV-based pseudoviral particles, w/o H5N1 proteins)



Application Data

HA (A/AW/SC/2021/H5N1) (GISAID # EPI2709137) NA (A/AW/SC/2021/H5N1) (GISAID # EPI2709127) Figure 1. Illustration of the replication-deficient MLV particle pseudotyped with H5N1 proteins

ADDITIONAL INFORMATION

Related Product Information for Influenza A H5N1 (A/AW/SC/2021) pseudovirus	This Influenza A H5N1 pseudovirus (or pseudoviral particle) is replication-deficient MIV (Murine Leukemia Virus) pseudotyped with the HA and NA proteins of the influenza A virus (A/American Wigeon/South Carolina/USDA-000345-001/2021)(H5N1) strain. They also contain the ORF for firefly luciferase (FLuc) as a reporter. Upon the Pseudoviral Particles (PP) infecting the cells, the reporters will be expressed in the transduced cells. By measuring the FLuc activity in the cells, the infectivity of the PP can be determined.
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/pseudovirus/influenza-a-h5n1-a-aw-sc-2021/62280>