

## Influenza H5 Pseudovirus

Catalog #: 1005-PP-005

### Description:

The influenza H5 pseudovirus is a third-generation lentiviral vector pseudotyped with the hemagglutinin protein from the influenza A/VietNam/1194/2004 (H5N1) strain. It contains a firefly luciferase reporter system. This pseudovirus is classified under biosafety level 2 (BSL-2) and is not known or suspected to contain any replicative biological agents due to multiple safety modifications in the viral genome.

**Formulation & Storage:** Supplied in DMEM supplemented with 10% Fetal Bovine Serum. Store at -80°C. Avoid Thaw/freeze cycle.

### Notes & Usage Guidelines:

Recommended Dilution: 1:50 to 1:100

Luciferase Units for Assays: 40 000 to 80 000

Reporter: Luciferase

~No. of plates that can be tested with a single aliquot: 1 plate

## Applications

### Viral Titration:

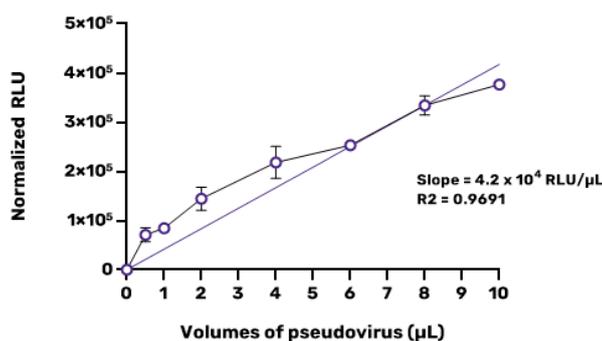
Pseudoviruses were serially diluted 2-fold in DMEM supplemented with 2% FBS, 25 mM HEPES, and 1x GlutaMAX (transduction medium). Next, 50 µL of transduction medium containing 10,000 HEK293-T cells was added to each well. Twenty-four hours posttransduction, 100 µL of DMEM supplemented with 10% FBS, 25 mM HEPES, and 1x GlutaMAX was added. Luciferase expression was measured 72 hours post-transduction using the Bright-Glo<sup>®</sup> Luciferase reagent (Promega, Madison, WI, USA). Viral titer was expressed as Relative Luciferase Units per microliter (RLU/µL) but may vary depending on the user's instrument, handling, or luciferase assay system.

### Pseudovirus Neutralization Assay Protocol:

A monoclonal neutralizing antibody (NAb) (Absolute Antibody, cat# AB00798-10.0) at 20 µg/mL was serially diluted 2-fold in a final volume of 50 µL of transduction medium and incubated for 1 hour at 37 °C with 1 µL of pseudovirus in a 96-well plate. Next, 50 µL of transduction medium containing 10,000 HEK293-T cells was added to each well. Twenty-four hours after pseudovirus addition, 100 µL of DMEM supplemented with 10% FBS, 25 mM HEPES, and 1x GlutaMAX was added. Luciferase expression was measured 72 hours post-transduction using the Bright-Glo<sup>®</sup> Luciferase reagent (Promega, Madison, WI, USA). Data are representative of duplicates.

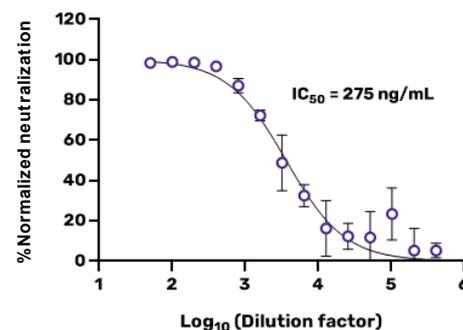
**Titration Curve**

Gain 135



**Neutralization Curve**

Gain 135



### Certificate of analysis:

A hardcopy of datasheet sent along with the products. Please refer to it for detailed information. For older lots, refer to the applicable certificate of analysis that may be requested at [services@ibtbioservices.com](mailto:services@ibtbioservices.com)

### Related Products:

IBT provides a wide array of anti-filovirus specific antibodies, recombinant proteins, and other infectious disease reagents. Please see our website, [www.ibtbioservices.com](http://www.ibtbioservices.com) for more details.

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