

Human Parainfluenza Virus Type 1, HPIV1/FRA/27344044/2007

Catalog No. NR-48681

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Virus Classification: *Paramyxoviridae, Respirovirus*

Species: Human parainfluenza virus type 1

Strain/Isolate: HPIV1/FRA/27344044/2007

Original Source: Human parainfluenza virus type 1 (HPIV1), HPIV1/FRA/27344044/2007 was isolated from the nasal cavity of a human in Caen, France on August 23, 2007.^{1,2} The strain was obtained by Dr. Henrickson from Professor Astrid Vabret of the Laboratory of Virology, University Hospital of Caen.

Comments: The complete genome of HPIV1, HPIV1/FRA/27344044/2007 has been sequenced (GenBank: [KF687312](#)).²

HPIV1 causes upper and lower respiratory tract infections in infants, young children and the elderly. The virus also causes more severe disease in immunocompromised individuals and those with chronic medical conditions. HPIV1 is one of four distinct HPIV serotypes, all of which are enveloped, negative single-stranded RNA viruses belonging to the family *Paramyxoviridae*.^{3,4}

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from *Macaca mulatta* kidney epithelial cells infected with HPIV1, HPIV1/FRA/27344044/2007.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

NR-48681 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:

Host: *Macaca mulatta* kidney epithelial cells (LLC-MK2 Derivative; ATCC® CCL-7.1™)

Growth Medium: Dulbecco's Modified Eagle's Medium containing 4 mM L-glutamine, 4500 mg per L glucose, 1 mM

sodium pyruvate and 1500 mg per L sodium bicarbonate, supplemented with 4 µg per mL trypsin

Infection: Cells should be 100% confluent

Incubation: 8 to 10 days at 37°C and 5% CO₂

Cytopathic Effect: Cell rounding, vesicle formation and granularity

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Human Parainfluenza Virus Type 1, HPIV1/FRA/27344044/2007, NR-48681."

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

1. Henrickson, K. J., Personal Communication.
2. Lorenzi, H., et al. J. Craig Venter Institute, Rockville, Maryland, USA. Direct Submission.
3. Beck, E. T., et al. "Genome Sequencing and Phylogenetic Analysis of 39 Human Parainfluenza Virus Type 1 Strains Isolated from 1997-2010." PLoS One 7 (2012): e46048. PubMed: 23029382.
4. Henrickson, K. J. "Parainfluenza Viruses." Clin. Microbiol. Rev. 16 (2003): 242-264. Pubmed: 12692097.

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