

**Vaccinia Virus, Western Reserve, Recombinant Expressing Guanarito Virus, INH-95551 Nucleocapsid Protein**

**Catalog No. NR-15488**

This reagent is the property of the U.S. Government.

**For research use only. Not for human use.**

**Contributor:**

Michael J. Buchmeier, Ph.D., Professor, Department of Medicine, University of California, Irvine, provided under government contract

**Manufacturer:**

BEI Resources

**Product Description:**

Virus Classification: *Poxviridae, Orthopoxvirus*

Agent: Vaccinia virus

Strain: rVACV-GTOV NP [Vaccinia virus (VACV), Western Reserve, recombinant expressing the nucleocapsid protein (NP) of Guanarito virus (GTOV), INH-95551]

Source:<sup>1</sup> A cDNA clone containing the entire ORF encoding the nucleocapsid protein from segment S of GTOV, INH-95551 was inserted into the pRB21 transfer vector, bringing it under the control of a synthetic VACV early/late promoter (PSYN). Recombinant VACV was made by transfecting the transfer plasmid into CV-1 cells infected with the VACV strain vRB12.

GTOV is an Arenavirus (*Arenaviridae, Arenavirus*) which is the etiologic agent of Venezuelan hemorrhagic fever.<sup>2,3</sup>

**Material Provided:**

Each vial contains approximately 1 mL of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (BSC-40, ATCC® CRL-2761™) infected with vaccinia virus, rVACV-GTOV NP.

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

**Packaging/Storage:**

NR-15488 was packaged aseptically, in screw-capped plastic cryovials. The product is provided frozen on dry ice 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: BSC-40 cells (ATCC® CRL-2761™)

Growth Medium: Dulbecco's Modified Eagle Medium supplemented with 10% fetal bovine serum, 1 mM sodium pyruvate and 2 mM L-glutamine

Infection: Cells should be 90% to 100% confluent

Incubation: 2 to 3 days at 37°C and 5% CO<sub>2</sub>

Cytopathic Effect: Cell rounding and sloughing

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Vaccinia Virus, Western Reserve, Recombinant Expressing Guanarito Virus, INH-95551 Nucleocapsid Protein, NR-15488."

**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. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see [www.cdc.gov/biosafety/publications/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/index.htm).

**Disclaimers:**

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at [www.beiresources.org](http://www.beiresources.org).

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

**Use Restrictions:**

**This material is distributed for internal research, non-commercial purposes only.** This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals

contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

**References:**

1. Kotturi, M. F., et al. "A Multivalent and Cross-Protective Vaccine Strategy Against Arenaviruses Associated with Human Disease." *PLoS Pathog.* 5 (2009): e1000695. PubMed: 20019801.
2. Tesh, R. B., et al. "Description of Guanarito Virus (*Arenaviridae: Arenavirus*), the Etiologic Agent of Venezuelan Hemorrhagic Fever." *Am. J. Trop. Med. Hyg.* 50 (1994): 452-459. PubMed: 8166352.
3. Salas, R., et al. "Venezuelan Haemorrhagic Fever." *Lancet* 338 (1991): 1033-1036. PubMed: 1681354.

ATCC® is a trademark of the American Type Culture Collection.

