

## **Product Information Sheet for NR-791**

# Ectromelia Virus Expressing Murine Interleukin-4

Catalog No. NR-791

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

#### Contributor:

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#### Manufacturer:

**BEI Resources** 

## **Product Description:**

Virus Classification: Poxviridae, Orthopoxvirus

Species: Ectromelia virus (ECTV)

<u>Strain/Isolate</u>: Moscow recombinant expressing mouse

interleukin-4 (IL-4)

Original Source: This IL-4-expressing ECTV was prepared by recombining the murine IL-4 gene, under the control of the 11K late promoter of vaccinia virus, into the Chinese hamster ovary cell host-range gene of ECTV, Moscow.<sup>1</sup>

<u>Comments</u>: This IL-4-expressing ECTV produces a lethal infection in mouse strains that are genetically resistant to ECTV, Moscow.<sup>1</sup>

#### **Material Provided:**

Each vial contains approximately 1 mL of cell lysate and supernatant from BS-C-1 cells infected with ECTV.

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

## Packaging/Storage:

NR-791 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:**

 $\underline{\text{Host}}$ : African green monkey kidney (BS-C-1) cells (ATCC<sup>®</sup> CCL-26<sup>™</sup>)

Growth Medium: Minimum Essential Medium supplemented with 2% irradiated fetal bovine serum, or equivalent

Infection: Cells should be 80–90% confluent (not 100% confluent)

Incubation: 3 to 5 days at 37°C and 5% CO<sub>2</sub>
Cytopathic Effect: Cell rounding and detachment

## Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Ectromelia Virus Expressing Murine Interleukin-4, NR-791."

## 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. <u>Biosafety in Microbiological and Biomedical Laboratories</u>. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see <a href="https://www.cdc.gov/biosafety/publications/bmbl5/index.htm">www.cdc.gov/biosafety/publications/bmbl5/index.htm</a>.

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## References:

- 1. Buller, R. M. L., Personal Communication.
- Jackson, R. J., et al. "Expression of Mouse Interleukin-4 by a Recombinant Ectromelia Virus Suppresses Cytolytic Lymphocyte Responses and Overcomes Genetic Resistance to Mousepox." <u>J. Virol.</u> 75 (2001): 1205–1210. PubMed: 11152493.
- Stanford, M. M. and G. McFadden. "The 'Supervirus'? Lessons from IL-4-expressing Poxviruses." <u>Trends Immunol.</u> 26 (2005): 339–345. PubMed: 15922951.
- Robbins, S. J., et al. "The Efficacy of Cidofovir Treatment of Mice Infected with Ectromelia (Mousepox) Virus Encoding Interleukin-4." <u>Antiviral. Res.</u> 66 (2005): 1–7. PubMed: 15781125.

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