

Vaccinia Virus (WR) A27L Protein with C-terminal Histidine Tag, Recombinant from baculovirus

Catalog No. NR-2622

For research use only. Not for human use.

Contributor:

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Product Description:

NR-2622 is a full-length recombinant form of the A27L membrane glycoprotein (C-terminal histidine-tagged) of the Western Reserve (WR) strain of vaccinia virus. The full length A27L protein is 110 residues (GenPept: P11258).^{1,2} NR-2622 was produced in cabbage looper (*Trichoplusia ni*) insect larvae using a baculovirus expression vector system³ and was purified using nickel affinity chromatography. The predicted protein sequence is shown in Table 1 below. Non-vaccinia virus residues are underlined.

Material Provided:

Each vial contains approximately 1.0 mg of NR-2622 in 30 mM phosphate buffer (pH 7.6) containing 50 mM KCl and 100 mM NaCl/0.05% polysorbate (v/v). The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

NR-2622 was packaged aseptically in cryovials. The product is provided on dry ice and should be stored at -20°C or colder immediately upon arrival. Repeated freeze-thaw cycles of this product should be avoided.

Functional Activity:

NR-2622 was demonstrated to be functionally active based on its reactivity with a mouse monoclonal antibody to A27L (BEI Resources NR-569).

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Vaccinia Virus (WR) A27L Protein with C-terminal Histidine Tag, Recombinant from baculovirus, NR-2622."

Biosafety Level: 1

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. 4th ed. Washington, DC: U.S. Government Printing Office, 1999. HHS Publication No. (CDC) 93-8395. This text is available online at www.cdc.gov/od/ohs/biosfty/bmbl4/bmbl4toc.htm.

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References:

1. Rodriguez, J. F. and M. Esteban. "Mapping and Nucleotide Sequence of the Vaccinia Virus Gene that Encodes a 14-Kilodalton Fusion Protein." J. Virol. 61 (1987): 3550-3554. PubMed: 2822962. GenPept: P11258.
2. Amegadzie, B. Y., B. Y. Ahn, and B. Moss. "Identification, Sequence, and Expression of the Gene Encoding a M_r 35,000 Subunit of the Vaccinia Virus DNA-Dependent RNA Polymerase." J. Biol. Chem. 266 (1991): 13712-13718. PubMed: 1856205. GenPept: P11258.
3. PERLXpress™, Chesapeake Protein Expression and Recovery Labs (PERL).

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4. Ward, B. M. "Visualization and Characterization of the Intracellular Movement of Vaccinia Virus Intracellular Mature Virions." *J. Virol.* 79 (2005): 4755–4763. PubMed: 15795261.

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1	<u>DPMDGTLFPG</u>	DDDLAIPATE	FFSTKAAKPP	EAKREAIVKA	DEDDNEETLK
51	QRLTNLEKKI	TNVTTKFEQI	EKCKRNDEV	LFRLNHAET	LRAAMISLAK
101	KIDVQTGRP	<u>YEHHHHHH</u>			

Non-vaccinia virus amino acids are underlined.