

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

Catalog No. NR-22133

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

A full-length recombinant form of the A27L membrane glycoprotein of the Western Reserve (WR) strain of vaccinia virus containing a C-terminal histidine-tag was produced in Sf9 insect cells using a baculovirus expression system and purified using nickel affinity chromatography. The predicted protein sequence is shown in Table 1. The full length A27L protein is 110 residues (GenPept: P11258).¹⁻³ NR-22133 was expressed from the same recombinant baculovirus vector as NR-2622, which was produced in cabbage looper (*Trichoplusia ni*) insect larvae.⁴

Material Provided:

Each vial contains 50 to 150 µg of NR-22133 in PBS (pH 7.4) with 0.05% polysorbate (v/v). The protein content, in mg, and the protein concentration, expressed as mg per mL, are shown on the Certificate of Analysis.

Packaging/Storage:

NR-22133 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-22133 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 BEI Resources, NIAID, NIH: Vaccinia Virus (WR) A27L Protein with C-terminal Histidine Tag, Recombinant from Baculovirus, NR-22133.”

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. 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

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References:

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- Chung, C. S. et al. “A27L Protein Mediates Vaccinia Virus Interaction with Cell Surface Heparan Sulfate.” J. Virol. 72 (1998): 1577-1585. PubMed: 9445060.

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Table 1 - Predicted Protein Sequence

1	DPMDGTLFPG	DDDLAIPATE	FFSTKAAKKP	EAKREAIVKA	DEDDNEETLK
51	QRLTNLEKKI	TNVTTKFEQI	EKCKRNDEV	LFRLNHAET	LRAAMISLAK
101	KIDVQTGRP	YEHHHHHH			

Vector-derived amino acids – Residues 1-2

A27L – Residues 9-112

Histidine tag – Residues 113-118