

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-2625

Vaccinia Virus, Western Reserve, L1R Protein with C-Terminal Histidine Tag, Recombinant from Baculovirus

Catalog No. NR-2625

For research use only. Not for human use.

Contributor:

Gary H. Cohen, Ph.D., Professor and Chair, Department of Microbiology, School of Dental Medicine, University of Pennsylvania, Philadelphia, Pennsylvania and Roselyn J. Eisenberg, Ph.D., Professor, Department of Pathobiology, Head, Laboratories of Microbiology and Immunology, School of Veterinary Medicine, University of Pennsylvania, Philadelphia, Pennsylvania.

Manufacturer:

Chesapeake PERL, Inc., Savage, Maryland

Product Description:

NR-2625 is a recombinant form of the L1R membrane glycoprotein [L1R(185t); residues 1 to 185, C-terminal histidine-tagged]¹ of the Western Reserve (WR) strain of vaccinia virus. The full length L1R protein is 250 residues (GenPept: P07612).² NR-2625 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 mg of NR-2625 in 20 mM phosphate buffer (pH 7.0) containing 20 mM NaCl/50% glycerol (v/v). The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

NR-2625 was packaged aseptically in cryovials. The product is provided on dry ice and should be stored at -80°C or colder immediately upon arrival. Repeated freeze-thaw cycles of this product should be avoided.

Functional Activity:

NR-2625 was demonstrated to be functionally active based on its reactivity with mouse monoclonal antibody to L1R (BEI Resources NR-417).

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Vaccinia Virus, Western Reserve, L1R Protein with C-Terminal Histidine Tag, Recombinant from Baculovirus, NR-2625."

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, 2009; see www.cdc.gov/biosafety/publications/bmbl5/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.

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 negotiate a license. U.S. Government contractors may need a license before first commercial sale.

References:

- Aldaz-Carroll, L., et al. "Physical and Immunological Characterization of a Recombinant Secreted Form of the Membrane Protein Encoded by the Vaccinia Virus L1R Gene." <u>Virology</u> 341 (2005): 59–71. PubMed: 16083934.
- Su, H.-P., et al. "The 1.51-Å Structure of the Poxvirus L1 Protein, a Target of Potent Neutralizing Antibodies." <u>Proc. Natl. Acad. Sci. U.S.A.</u> 102 (2005): 4240–4245. PubMed: 15761054.
- PERLXpress™, Chesapeake Protein Expression and Recovery Labs (PERL).

BEI Resources

www.beiresources.org

E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898

NR-2625 14AUG2012



Product Information Sheet for NR-2625

- Lustig, S., et al. "Combinations of Polyclonal or Monoclonal Antibodies to Proteins of the Outer Membranes of the Two Infectious Forms of Vaccinia Virus Protect Mice against a Lethal Respiratory Challenge." J. <u>Virol.</u> 79 (2005): 13454–13462. PubMed: 16227266.
- Fogg, C., et al. "Protective Immunity to Vaccinia Virus Induced by Vaccination with Multiple Recombinant Outer Membrane Proteins of Intracellular and Extracellular Virions." <u>J. Virol.</u> 78 (2004): 10230–10237. PubMed: 15367588.

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

Table 1 - Predicted Protein Sequence					
1	<u>DPA</u> MGAAASI	QTTVNTLSER	ISSKLEQEAN	ASAQTKCDIE	IGNFYIRQNH
51	GCNLTVKNMC	SADADAQLDA	VLSAATETYS	GLTPEQKAYV	PAMFTAALNI
101	QTSVNTVVRD	FENYVKQTCN	SSAVVDNKLK	IQNVIIDECY	GAPGSPTNLE
151	FINTGSSKGN	CAIKALMQLT	TKATTQIAPK	QVAGTGVQ <u>HH</u>	<u>HHHH</u>

Non-vaccinia virus amino acids are underlined.

BEI Resources www.beiresources.org E-mail: contact@beiresources.org Tel: 800-359-7370

Fax: 703-365-2898