Vaccinia Virus (WR) B5R Protein with N-terminal Histidine Tag, Recombinant from baculovirus

Catalog No. NR-2624

For research use only. Not for human use.

Contributor:
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Product Description:
NR-2624 is a recombinant form of the B5R membrane glycoprotein [B5R(275t); residues 20 to 275 comprising the ectodomain, N-terminal histidine-tagged]1 of the Western Reserve (WR) strain of vaccinia virus. The full length B5R protein is 317 residues (GenPept: Q01227).2 NR-2624 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-2624 in 25 mM phosphate buffer (pH 7.0) containing 150 mM NaCl/50% glycerol (v/v). The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:
NR-2624 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-2624 was demonstrated to be functionally active based on its reactivity with human polyclonal anti-vaccinia virus immune globulin (VIG; BEI Resources NR-650) and mouse monoclonal antibodies to B5R (BEI Resources NR-422 to NR-426 to NR-431, NR-551 to NR-556 and NR-559 to NR-562).

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) B5R Protein with N-terminal Histidine Tag, Recombinant from baculovirus, NR-2624.”

Biosafety Level: 1

Disclaimers:
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References:
3. PERLXpress™, Chesapeake Protein Expression and Recovery Labs (PERL).


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<table>
<thead>
<tr>
<th>Table 1 - Predicted Protein Sequence</th>
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<tr>
<td>1  DLHHHHHHTC TVTPMNNAKL TSTETFNDK QKVFTCDQG YHSSDPNAC</td>
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<tr>
<td>251 KDVQYEQE1 ESLE</td>
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</tbody>
</table>

Non-vaccinia virus amino acids are underlined.