Product Information Sheet for NR-34571

Pertactin (PRN) from *Bordetella pertussis*

Catalog No. NR-34571
This reagent is the tangible property of the U.S. Government.

For research use only. Not for human use.

Contributor:
BEI Resources

Manufacturer:
List Biological Laboratories, Inc.

Product Description:
Native pertactin (PRN) was purified from *Bordetella pertussis* (*B. pertussis*) by conventional chromatography.

PRN is one of several virulence factors expressed by *B. pertussis*, a Gram-negative, aerobic coccobacillus that causes whooping cough in young children. It is involved in the binding of *B. pertussis* to ciliated pulmonary epithelial cells. The protein is first produced as a 93 kDa precursor. Upon secretion into the extracellular environment, a 30 kDa domain at the C terminus remains in the outer membrane, while the mature 60.4 kDa pertactin molecule is released. The crystal structure of mature pertactin has been determined by X-ray diffraction to 2.5Å resolution.

PRN is a component of several acellular pertussis vaccines.

Material Provided:
Each vial of NR-34571 contains 50 µg of lyophilized PRN sealed under vacuum in glass serum vials with a rubber stopper and aluminum crimp seal. When reconstituted with 0.5 mL of molecular grade water, the concentration of buffer is 5 mM Tris-HCl (pH 7.5), 150 mM NaCl and 1.25% trehalose.

Storage:
NR-34571 is shipped at room temperature and should be stored at 2°C to 8°C prior to reconstitution. Handle the product gently. DO NOT VORTEX.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Pertactin (PRN) from *Bordetella pertussis*, NR-34571."

Biosafety Level: 1


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 determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

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

BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

© 2012 American Type Culture Collection (ATCC). All rights reserved.

NR-34571_18JUL2012
Page 1 of 1