Streptococcus pneumoniae Family 1, Clade 2 Pneumococcal Surface Protein A (PspA UAB055) with C-Terminal Histidine Tag, Recombinant from Escherichia coli

Catalog No. NR-51403
This reagent is the property of the U.S. Government.

For research use only. Not for use in humans.

Contributor:
David E. Briles, Professor, Department of Microbiology, University of Alabama at Birmingham, Alabama, USA

Manufacturer:
BEI Resources

Product Description:
NR-51403 is a recombinant form of the pneumococcal surface protein A (PspA UAB055) from Streptococcus pneumoniae (S. pneumoniae) Family 1, Clade 2 strain Rx1 (GenBank: M74122). The recombinant PspA UAB055 containing a C-terminal hexahistidine tag was expressed in Escherichia coli BL21(DE3) pLysS and purified by affinity chromatography. NR-51403 contains 311 residues, lacks the signal sequence and has a theoretical molecular of 34,765 kDa. The predicted protein sequence is shown in Figure 1.

Material Provided:
Each vial contains 250 µL of purified recombinant protein in PBS, pH 7.4. The concentration, expressed as micrograms per milliliter, is shown on the Certificate of Analysis.

Packaging/Storage:
Purified recombinant PspA UAB055 protein was packaged aseptically, in screw-capped plastic cryovials. This product is provided frozen on dry ice and should be stored at -80°C or colder immediately upon arrival.

Citation:
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Streptococcus pneumoniae Family 1, Clade 2 Pneumococcal Surface Protein A (PspA UAB055) with C-Terminal Histidine Tag, Recombinant from Escherichia coli, NR-51403.”

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.
Figure 1: Predicted Protein Sequence

1 MEESPVASQS KAEKDYDAAK KDAKNKAV EDAQKALDDA KAAQKDYDED
51 QKKTEEAALK EKAASEEMDK AVAAVQQAYL AYQQATDKAA KDAADKMIDE
101 AKKREEEAKT KFNTVRAMVV PEPEQLAETK KKSEEASKQA PELTKLEEA
151 KAKLEEAEEKK ATEAOKKVDK EEEAPQAIA KALEQYHRLE QELKEIDESE
201 SEDYAKEGFR APLQSKLDAK KASKLLEEL SDKIDELDAE IAKLEDQLKA
251 AEENNNVEDY FKEGLEKTIA AKKAELEKTE ADLKKAVNEP EKPAPAPETP
301 APELEHHHHH H

Plasmid-derived amino acids – Residues 1, 304, 305

PspA Protein – Residues 2 to 303 [represents amino acid residues 2 to 303 of the native PspA protein (GenBank: M74122)]

Hexa-Histidine Tag – Residues 306 to 311