

ospC recombinant protein

Recombinant antigen ospC for Borrelia

CATALOG #
AAA72863

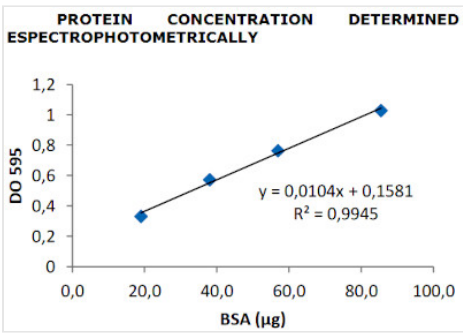
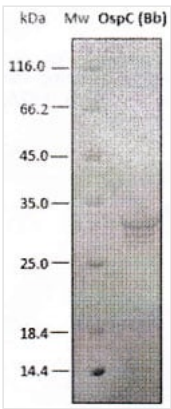
HOST
Escherichia coli

PRODUCT SYNONYMS

ospC; Recombinant antigen ospC for Borrelia; B. burgdorferi; ospC recombinant protein

PRODUCT SPECIFICATIONS

Host	Escherichia coli
Purity/Purification	>95% in a SDS-PAGE
Form/Format	20 mM phosphate buffer pH 7 and 0.15 M NaCl (Before lyophilization)
Concentration	1.91 mg/ml (varies by lot)
Sequence Length	179
Recombinant Antigen	The outer surface protein C (ospC) of Borrelia burgdorferi (Lagal et al., 2003).
Batch Composition	Components: his-ospC Composition: recombinant antigen with a his-tag in its N-terminus.
Total Quality Per Aliquot	1 mg
Observations	Proteins should be maintained frozen at high concentrations. The dilution to be performed for ELISA assays should be made with a small quantity of protein, the same day of the experiment. In order to defrost the protein, maintain the aliquot at 25°C without shaking to avoid aggregation. Prior making test dilutions and after defrosting the protein, is recommended to remove possible protein aggregates by centrifuging the stock solution, avoiding alterations in the immobilization of the biomolecule to the solid surface.
Reconstitution	With approximately 0.66 ml of sterile double-distilled water, a final concentration of approximately 1.3 mg/ml will be obtained. The solubilisation of the cake should be developed for 15 minutes to allow a homogenous protein solution, considering that part of the cake can be on the glass-walls of the container. With this reconstitution, the protein will be maintained at pH 7. It is recommended that the users carry out their absorbance determinations to avoid concentration variabilities due to the equipment used, mainly in reproducibility analysis.
Preparation and Storage	Protein is shipped at room temperature. Upon arrival, it should be stored at 4°C or -20°C in vertical position, avoiding all possible humidity and maintaining the vials dry. Once reconstituted, it should be aliquoted in order to avoid repeated freezing and thawing cycles and stored at -20°C to -80°C.



Quality Control
This protein does not contain any Trp residues. Experience shows that this could result in more than 10% error in the computed extinction coefficient. Therefore, we have measured the protein concentration by using the colorimetric assay based on the interaction between Coomassie brilliant blue and the arginine and aromatic residues (Bradford Method) and its maximum absorption shifts from 470 nm to 595 nm. The standard curve was performed with the protein BSA. 40 µl of the protein were analysed.

ADDITIONAL INFORMATION

Related Product Information for ospC recombinant protein	The Borrelia burgdorferi antigen ospC has been prepared as a recombinant antigen fused to a his-tag in its N-terminus.
Product Categories/Family for ospC recombinant protein	BACTERIA

NCBI AND UNIPROT INFORMATION

NCBI GI #	444898153
Molecular Weight	Determined by SDS-PAGE, the protein band is between molecular markers of 25,000 and 35,000 Da, while relative molecular mass calculated from amino acid sequence is 27,887.3 Da.
NCBI Official Full Name	OspC, partial
UniProt Protein Name	OspC
UniProt Gene Name	ospC

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/ospc-recombinant-protein-escherichia-coli/72863>