

OspC recombinant protein

OspC recombinant

CATALOG #
AAA72840

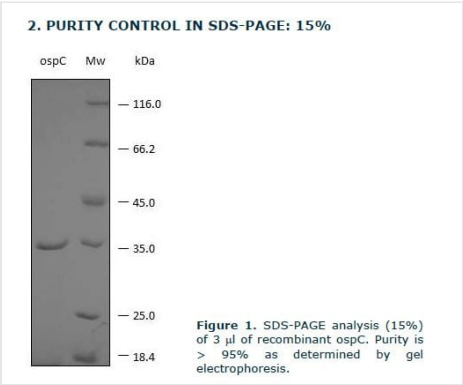
HOST
E Coli

PRODUCT SYNONYMS

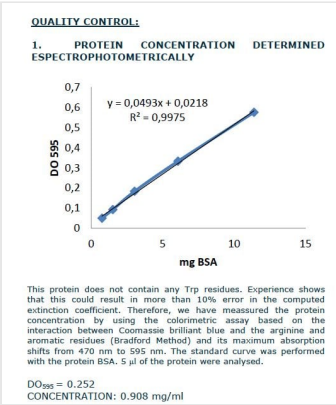
OspC; OspC recombinant; RECOMBINANT ANTIGEN ospC from Borrelia afzelii; B. afzelii; OspC recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	0.95
Form/Format	Dry powder (lyophilized)
Concentration	0.908 mg/ml (varies by lot)
Sequence Length	212
Recombinant Antigen	the outer surface protein C (OspC) of Borrelia afzelii (Rousselle et al., 1998).
Organism	Borrelia
Tag	HIS
Molecular Weight Information	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 31,320.3 Da.
Observation Notes	in some cases, purified proteins run at a molecular weight which is slightly different to the theoretically calculated molecular weight maybe due to the his-tag presence, which can produce a delay in SDS-PAGE. 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 degree C without shaking to avoid aggregation. Prior making test dilutions and after defrost 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.
Buffer	20 mM phosphate buffer pH 8, 1 M NaCl and 0.1% polyoxyethylene (10) tridecyl ether, urea 8 M
Batch Composition	Recombinant antigen with a his-tag in its N-terminus
Storage Buffer	20 mM phosphate buffer pH 8, 1 M NaCl and 0.1% polyoxyethylene (10) tridecyl ether, urea 8 M
Reconstitution	For lyophilized proteins: with 0.04 ml of sterile double-distilled water (lot specific) for a final concentration of 1.59 mg/ml (lot specific). The protein will be at pH 8.
Preparation and Storage	Lyophilized protein is shipped with on ice packs. Upon arrival, it should be stored at 20 degree C to -80 degree C. Aliquot after reconstitution in order to avoid repeated freezing and thawing cycles and store at 20 degree C to -80 degree C.



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for OspC recombinant protein	the <i>Borrelia afzelii</i> antigen OspC has been prepared as a recombinant antigen fused to a his-tag in its N-terminus. It is produced from the complete ORF of the gene of the outer surface protein C.
Product Categories/Family for OspC recombinant protein	BACTERIA
References	Rousselle J. C., Callister S. M., Schell R. F., Lovrich S.D., Jobe D. A., Marks J. A. and Wieneke C. A. Borreliacidal antibody production against outer surfaceprotein C of <i>Borrelia burgdorferi</i> . 1998, J. Infect. Dis.,178(3):733-41. Bradford, MM. A rapid and sensitive method for thequantitation of microgram quantities of protein utilizing theprinciple of protein dye binding. Anal Biochem. 1976,131:499-503.

NCBI AND UNIPROT INFORMATION

NCBI GI #	111074137
NCBI GeneID	4227286
NCBI Accession #	YP_709265.1
NCBI GenBank Nucleotide #	NC_008274.1
NCBI Official Full Name	outer surface protein C
NCBI Official Symbol	ospC
NCBI Protein Information	outer surface protein C

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.