

p14 recombinant protein

p14 recombinant

CATALOG # AAA72839	HOST E Coli	APPLICATIONS Lateral Flow, Western Blot, ELISA
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PRODUCT SYNONYMS

p14; p14 recombinant; RECOMBINANT ANTIGEN p14 from Borrelia afzelii; flagelina p41 of B. afzelii; p14 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	0.95
Form/Format	Dry powder (lyophilized)
Concentration	1.522 mg/ml (varies by lot)
Sequence Length	160
Applicable Applications for p14 recombinant protein	LF (Lateral Flow), WB (Western Blot), ELISA
Recombinant Antigen	internal 14-kDa flagellin fragment of Borrelia afzelii (Craft et al., 1984).
Organism	Borrelia
Tag	HIS
Molecular Weight Information	Determined by SDS-PAGE, the protein band is between molecular markers of 25,000 and 18,400 Da, while relative molecular mass calculated from amino acid sequence is 16,483.9 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 defrosting the protein, it 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, 10 mM NaCl, 0.1% polyoxyethylene (10) tridecyl ether, 8 M urea and 250 mM imidazol
Batch Composition	Recombinant antigen with a his-tag in its N-terminus
Storage Buffer	20 mM phosphate buffer pH 8, 10 mM NaCl, 0.1% polyoxyethylene (10) tridecyl ether, 8 M urea and 250 mM imidazol
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.

IMAGES



Application Data



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for p14 recombinant protein	the Borrelia afzelii antigen p14 has been prepared as a recombinant antigen fused to a his-tag in its N-terminus. It is produced from the internal fragment (aa 197-274) of the 41 kDa-flagellin of this bacteria.
Product Categories/Family for p14 recombinant protein	BACTERIA
References	Craft, J. E., D. K. Fischer, J. A. Hardin, M. Garcia- Blanco, and A. C. Steere. Spirochetal antigens in Lymedisease. 1984, Arthritis Rheum. 27(Suppl.):64. Bradford, MM. A rapid and sensitive method for thequantitation of microgram quantities of protein utilizing the principle of protein dye binding. Anal Biochem. 1976, 131:499-503.Importan

NCBI AND UNIPROT INFORMATION

NCBI GI #	47499106
NCBI Official Full Name	flagellin

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.

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Online datasheet: <https://stage.aaabiotech.com/p14-recombinant-protein-e-coli-lf-lateral-flow-wb-western-blot-elisa/72839>