

LipL21 recombinant protein

Recombinant antigen LipL21 for Leptospira interrogans

CATALOG #
AAA72874

HOST
Pichia pastoris

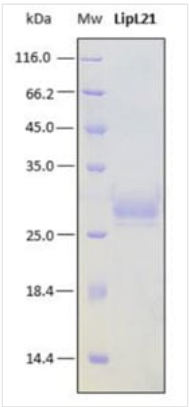
PRODUCT SYNONYMS

LipL21; Recombinant antigen LipL21 for Leptospira interrogans; LipL21 recombinant protein

PRODUCT SPECIFICATIONS

Host	Pichia pastoris
Form/Format	Dry powder (stabilized with 15% trehalose)
Recombinant Antigen	Leptospira interrogans lipL21 (Seenichamy et al., 2014)
Batch Composition	Components: his-lipL21 Composition: recombinant antigen with a his-tag in its C-terminus Components: Storage buffer before lyophilization Composition: 20 mM phosphate buffer pH 8 and 0.1 M KCl
Quality Control	1. Protein concentration determined espectrophotometrically $DO_{280} = 2.37$ $A_{0.1\%} (=1 \text{ g/l}) = 1.391$ Concentration*: 1.70 mg/ml * The measurement of the protein concentration has been performed with the theoretical extinction coefficient of the recombinant protein obtained from Gill and vonHippel, 1989. It is recommended that the users carry out their absorbance determinations to avoid equipment variabilities regarding final concentration, mainly in reproducibility analysis. 2. Absence of precipitation after a freezing and thawing cycle: ok
Reconstitution	Reconstitute with a 0.51 ml of sterile double-distilled water for a final concentration of 1.70 mg/ml will be obtained. The solubilization of the cake should be developed for 15 min to allow a homogeneous protein solution, considering that part of the cake can be on the glass-walls of the container. Upon reconstitution, leave the solution at least 15 min homogenizing with a mild agitation at 4°C. Avoid vigorous shaking that can cause foaming and protein denaturation. With this reconstitution, the protein will be maintained at pH 8. It is recommended that the users carry out their absorbance determinations to avoid concentration variabilities due to the equipment used, mainly in reproducibility analysis
Total Quantity per Aliquot	1 mg
Note	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 alterations in the immobilization of the biomolecule to the solid surface.
Preparation and Storage	Upon receipt, it should be stored at 4°C to -20°C in vertical position, avoiding all possible humidity and maintaining dry. Once reconstituted, it should be aliquoted to avoid repeated freezing and thawing cycles and stored at -20°C to -80°C.

IMAGES



SDS-PAGE
SDS-PAGE analysis (15%) of 1 ul of recombinant lipL21. Purity is >95% as determined by gel electrophoresis

ADDITIONAL INFORMATION

Related Product Information for LipL21 recombinant protein	The mature Leptospira interrogans antigen LipL21 has been prepared as a recombinant antigen fused to a his-tag. It is produced from the lipL21 gene which codifies an outer membrane lipoprotein of the spirochete Leptospira interrogans.
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NCBI AND UNIPROT INFORMATION

Molecular Weight	SDS-PAGE analysis determines that the protein band is between the molecular markers of 35,000 and 25,000 Da due to the glycosylation pattern, while relative molecular mass, calculated from amino acid sequence and without glycosylation, is 21,346.50 Da.
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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/lipL21-recombinant-protein-pichia-pastoris/72874>