

Recombinant Human FABP4/A-FABP/ALBP(A29T) Protein

Catalog No.: RP00045 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 2167 P15090

Tags

No tag

Synonyms

A-FABP; AFABP; ALBP; HEL-S-104; aP2;FABP4;AFABP;ALBP;HEL-S-104;aP2

Product Information

Source Purification *E. coli* ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

14.62 kDa 15 kDa

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Fatty acid-binding protein, adipocyte, also known as Adipocyte-type fatty acid-binding protein. It is a cytoplasm protein which belongs to the calycin superfamily and Fatty-acid binding protein (FABP) family. In familial combined hyperlipidemia (FCHL), FABP4 correlated to body mass index (BMI), waist circumference and homeostasis model assessment (HOMA) index.FABP4 levels were associated with triglyceride-rich lipoproteins. In humans serum FABP4 levels correlate significantly with features of PCOS. It appears to be a determinant of atherogenic dyslipidemia. FABP4 pathway mediates the sebaceous gland hyperplasia in keratinocyte-specific Pten-null mice. FABP4 concentration significantly increased with an increasing of MS features and was strongly correlated with body-mass index, triglycerides, HDL-cholesterol concentrations and blood pressure. FABP4 is a strong plasma marker of metabolic disturbances in HIV-infected patients, and therefore, could serve to guide therapeutic intervention in this group of patients.

Basic Information

Description

Recombinant Human FABP4/A-FABP/ALBP(A29T) Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Cys2-Ala132 (29Ala/Thr)) of human FABP4 (Ala29Thr) (Accession #NP 001433.1).

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

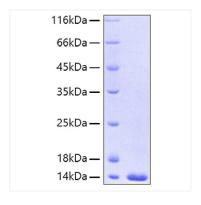
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human FABP4/A-FABP/ALBP(A29T) Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.