

Recombinant Human FABP4 Protein

Catalog No	RP00008	Category	Protein
Description	Recombinant Human FABP4 Protein is produced by <i>E. coli</i> expression system. The target protein is expressed with sequence (Cys2-Ala132) of human FABP4 (Accession #NP_001433.1).		

Sequence Information

Species	Human	Gene ID	2167
Tags	No tag	Swiss Prot	P15090
Synonyms	AFABP; ALBP		
AA Sequence	CDAFVGTWKLVSSENFDDYMKEVGVGFATRQVAGMAKPNMIISVNGDVITIKSESTFKNT EISFILGQEFDEVTTADDRKYKSTITLDGGVLVHVQKWDGKSTTIKRRKREDDKLVVECVMK GVTSTRVYERA		

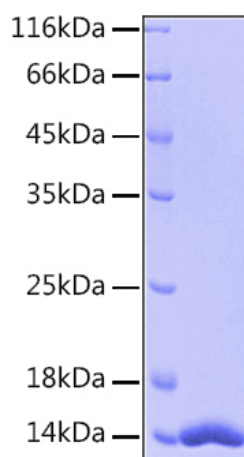
Product information

Source	<i>E. coli</i>
Purity	> 95% by SDS-PAGE.
Endotoxin	< 0.1 EU/μg of the protein by LAL method.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Reconstitution	Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Storage	Store the lyophilized protein at -20°C to -80 °C for long term. 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.

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.

SDS-PAGE



Bioactivity

Recombinant Human FABP4 was determined by SDS-PAGE under reducing conditions with Coomassie Blue, showing a band at 15 kDa.