

Recombinant Human FABP4/A-FABP Protein (His Tag)

Catalog Number:PKSH033682



Note: Centrifuge before opening to ensure complete recovery of vial contents.

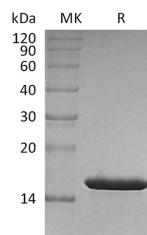
Description

Synonyms	Fatty Acid-Binding Protein Adipocyte;Adipocyte Lipid-Binding Protein;ALBP;Adipocyte-Type Fatty Acid-Binding Protein;A-FABP;AFABP;Fatty Acid-Binding Protein 4;aP2;HEL-S-104
Species	Human
Expression Host	E.coli
Sequence	Cys2-Ala132
Accession	P15090
Calculated Molecular Weight	16.9 kDa
Observed molecular weight	15 kDa
Tag	N-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Fatty Acid-Binding Protein 4 (FABP4) is a cytoplasm protein that belongs to the fatty-acid binding protein (FABP) family of calycin superfamily. Fatty acid binding proteins are a family of small; highly conserved; cytoplasmic proteins that bind long-chain fatty acids. FABP4 is expressed in a differentiation-dependent fashion in adipocytes and is a critical gene in the regulation of the biological function of these cells. FABP4 is thought to participate in Lipid transport protein in adipocytes. FABP4 binds to the long chain fatty acids and retinoic acid; delivers long-chain fatty acids and retinoic acid to their cognate receptors in the nucleus. FABP4 modulates inflammatory responses and cholesterol ester accumulation.

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FABP4 is a plasma marker of metabolic disturbances in HIV-infected patients; and therefore; could serve to guide therapeutic intervention in this group of patients.

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