

32-3789: FABP2 Recombinant Protein

Alternative Name : Fatty acid-binding protein 2,IFABP,I-FABP,FABPI,FABP-2,Fatty acid-binding protein intestinal,FABP2,MGC133132.

Description

Source : Escherichia Coli. FABP2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 131 amino acids and having a molecular mass of 15.1kDa.The FABP2 is purified by proprietary chromatographic techniques. FABP multigene family has almost 20 known members. FABPs are divided into 3 different types: hepatic, intestinal and cardiac which form 14-15 kDa proteins that take part in the uptake, intracellular metabolism and/or transport of long-chain fatty acids. FABPs are involved in the modulation of cell growth and proliferation. Intestinal FABP (FABP2) gene has a polymorphism at codon 54 that identified an alanine-encoding allele and a threonine-encoding allele. Thr-54 protein is associated with increased fat oxidation and insulin resistance. High serum levels of FABP2 is ulcerative colitis indicates ileitis. FABP2 is has part in triglyceride-rich lipoprotein synthesis. FABP2 binds saturated long-chain fatty acids with a high affinity, but binds with a lower affinity to unsaturated long- chain fatty acids. FABP2 helps maintain energy homeostasis by functioning as a lipid sensor.

Product Info

Amount : 25 µg
Purification : Greater than 97.0% as determined by: (a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content : FABP2 was lyophilized from a 0.2µm filtered concentrated solution in 1xPBS, pH7.4.
Storage condition : Lyophilized FABP2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FABP2 should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
Amino Acid : AFDSTWKVDR SENYDKFMEK MGVNIVKRKL AAHDNLKLT I TQEGNKFTVK ESSAFRNIEV V FELGVTFNY NLADGTELRG TWSLEGNKLI GKFKRTDNGN ELNTVREIIG DELVQTYVYE GVEAKRIFKK D.

Application Note

It is recommended to reconstitute the lyophilized Interleukin FABP2 in sterile 18M-cm H₂O not less than 100Åµg/ml, which can then be further diluted to other aqueous solutions.

