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## Product Data Sheet

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Product Name: FABP2 Human  
 Cat. No.: GP23447  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Fatty acid-binding protein 2; IFABP; I-FABP; FABPI; FABP-2; Fatty acid-binding protein intestinal; FABP2; MGC133132.		
Amino Acid Sequence	AFDSTWKVDR SENYDKFMEK MGVNIVKRKL AAHDNLKLTl TQEGNKFTVK ESSAFRNIEV VFELGVTFNY NLADGTELRG TWSLEGNKLI GKFKRTDNGN ELNTVREIIG DELVQTYVYE GVEAKRIFKK D.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin FABP2 in sterile 18M-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	FABP2 was lyophilized from a 0.2µm filtered concentrated solution in 1xPBS, pH7.4.		

### Introduction

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 resistance. High serum levels of FABP2 in 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.

### Stability

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Lyophilized FABP2 although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution FABP2 should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

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.

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