FABP2 (human recombinant)
Item No. 10009548 • Batch No. XXXXXX

Synonyms: Fatty Acid Binding Protein 2, I-FABP, Intestinal-FABP
Source: Recombinant N-terminal hexahistidine-tagged protein expressed in E. coli
Mr: 19.3 kDa
Purity: ≥95%
Stability: ≥1 year at -80°C
Supplied in: 50 mM sodium phosphate, pH 7.2, containing 20% glycerol, 100 mM sodium chloride, and 1 mM DTT

Protein
Concentration: batch specific mg/ml

Fatty acid binding protein 2 (FABP2) is one of nine known cytosolic FABPs ranging in size from 14-15 kDa containing 127-132 amino acids.1 Members of this protein family exhibit high-affinity for small lipophilic ligands and were named according to the tissue from which they were initially isolated.1 Studies suggest that FABPs are involved in the uptake and metabolism of fatty acids, in the maintenance of cellular membrane fatty acid levels, in intracellular trafficking of these substrates, in the modulation of specific enzymes of lipid metabolic pathways, and in the modulation of cell growth and differentiation.2 FABP family members have highly conserved three dimensional structures and 22-73% amino acid sequence similarity. FABP2 is composed of ten antiparallel β strands that form a barrel and binds the ligand in a bent confirmation. It is exclusively expressed in the intestinal enterocytes and is potentially a plasma marker for intestinal injury. FABP2 polymorphism has been suggested to be associated with gender specific obesity and increased risk of diabetes.1

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/10009548

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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