

FABP5/E-FABP Protein, Mouse (His)

Cat. No.:	HY-P79398
Synonyms:	Fatty acid-binding protein 5; Fabp5; Epidermal-type fatty acid-binding protein; E-FABP; Fatty acid-binding protein, epidermal; Keratinocyte lipid-binding protein; Psoriasis-associated fatty acid-binding protein homolog; PA-FABP; Fabpe; Klbp; Mal1
Species:	Mouse
Source:	E. coli
Accession:	Q05816 (M1-Q135)
Gene ID:	16592
Molecular Weight:	Approximately 16 kDa

PROPERTIES

AA Sequence	<div> <div>M A S L K D L E G K</div> <div>P D C I I T C D G N</div> <div>R K T E T V C T F Q</div> <div>V M N N A T C T R V</div> </div> <div> <div>W R L M E S H G F E</div> <div>N I T V K T E S T V</div> <div>D G A L V Q H Q Q W</div> <div>Y E K V Q</div> </div> <div> <div>E Y M K E L G V G L</div> <div>K T T V F S C N L G</div> <div>D G K E S T I T R K</div> </div> <div> <div>A L R K M A A M A K</div> <div>E K F D E T T A D G</div> <div>L K D G K M I V E C</div> </div>
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	FABP5, also known as E-FABP, functions as an intracellular carrier for long-chain fatty acids and related active lipids, including endocannabinoids, thereby regulating the metabolism and actions of the ligands they bind. Beyond its role in cytosolic transport, FABP5 selectively delivers specific fatty acids from the cytosol to the nucleus, activating nuclear receptors. Notably, it delivers retinoic acid to the nuclear receptor peroxisome proliferator-activated receptor delta, promoting proliferation and survival. FABP5's involvement extends to serving as a synaptic carrier of endocannabinoids at central synapses, thereby controlling retrograde endocannabinoid signaling. Additionally, FABP5 modulates inflammation
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by regulating PTGES induction through NF-kappa-B activation and prostaglandin E2 (PGE2) biosynthesis during inflammatory processes. Its potential role in keratinocyte differentiation is also suggested.

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

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