FABP1/L-FABP Protein, Human (N-His)

Cat. No.:	HY-P70264
Synonyms:	rHuFatty acid-binding protein/FABP1, His; Fatty Acid-Binding Protein Liver; Fatty Acid-Binding Protein 1; Liver-Type Fatty Acid-Binding Protein; L-FABP; FABP1; FABPL
Species:	Human
Source:	E. coli
Accession:	P07148 (M1-I127)
Gene ID:	2168
Molecular Weight:	13-15 kDa

PROPERTIES

AA Sequence	M S F S G K Y Q L Q S Q E N F E A F M K A I G L P E E L I Q K G K D I K G V S E I V Q N G K H F K F T I T A G S K V I Q N E F T V G E E C E L E T M T G E K V K T V V Q L E G D N K L V T T F K N I K S V T E L N G D I I T N T M T L G D I V F K R I S K R I
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, 0.5 M Argine, 50% Glycerol, 2 mM EDTA, pH 7.4 or 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	FABP1 Protein is a cytoplasm protein and belongs to the calycin superfamily and FABP family. FABP1 is a liver-specific FABP that plays important roles in intracellular lipid metabolism in the liver[1]. FABP1 is expressed in renal proximal tubule cells and released into urine in response to hypoxia caused by decreased peritubular capillary blood flow[2].

REFERENCES

[1]. S H Chen, et al. Human liver fatty acid binding protein gene is located on chromosome 2. Somat Cell Mol Genet. 1986 May;12(3):303-6

[2]. I-Ting Tsai, et al. FABP1 and FABP2 as markers of diabetic nephropathy. Int J Med Sci. 2020 Aug 27;17(15):2338-2345.

[3]. Huifeng Pi, et al. Long-term exercise prevents hepatic steatosis: a novel role of FABP1 in regulation of autophagy-lysosomal machinery. FASEB J. 2019 Nov;33(11):11870-11883.

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