

Recombinant Mouse Fabp1 protein

Cat. No. Fabp1-659M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Fabp1 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	127
Description	The fatty-acid-binding proteins (FABPs) are a family of carrier proteins for fatty acids and other lipophilic substances such as eicosanoids and retinoids. These proteins are thought to facilitate the transfer of fatty acids between extra- and intracellular membranes. Fatty acid-binding protein 1 (FABP1) encoded by the FABP1 gene, also known as liver-type fatty acid-binding protein (L-FABP), is a member of FABP family and it is a small, highly conserved, cytoplasmic proteins. In addition, FABP1 binds free fatty acids and their coenzyme A derivatives, bilirubin, and some other small molecules in the cytoplasm. Furthermore, it may be involved in intracellular lipid transport. Through amino acid sequence comparison, murine FABP1 shares 84% and 94% a.a. sequence identity with human and rat FABP1.
Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4, 2 % trehalose.
Bio-activity	Fully biologically active when compared to standard. The binding affinity of rMuFABP1 for the synthetic ligand cis-parinaric acid has been measured by fluorescence titration. Half maximal fluorescence of 2.5

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	μ M rMuFABP1 is achieved with approximately 5 μ M cis-paranaric acid.
Molecular Mass	Approximately 14.2 kDa, a single non-glycosylated polypeptide chain containing 127 amino acids.
AA Sequence	MNFSGKYQLQSQENFEPFMKAIGLPEDLIQKGKDIKGVSEIVHEGKKIKLTITYGPKVV RNEFTLGEECELETMTGEKVKAVVKLEGDNKMVTTFKGIKSVTELNGDTITNTMTLG DIVYKRVSKRI
Endotoxin	Less than 1 EU/g of rMuFABP1 as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $\leq$ -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Fabp1
Official Symbol	Fabp1
Synonyms	FABP1; fatty acid binding protein 1, liver;

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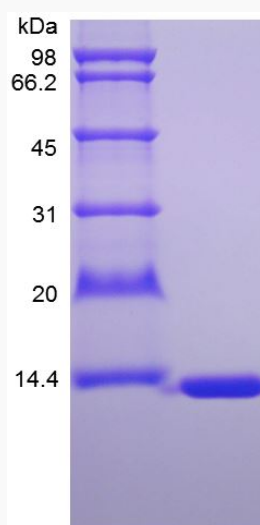
Gene ID 54005

mRNA Refseq NM_017399.5

Protein Refseq NP_059095.1

UniProt ID P12710

SDS-PAGE of Fabp1-
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