Recombinant Mouse FABP5

Type:	Recombinant	Cat. No.:	42040
Tag:	His	Size:	0.1 mg
Source:	E.Coli	Purity :	>95%
Other names:	E-FABP; PA-FABP	Species:	Mouse

Introduction to the Molecule

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. The fatty acid binding protein 4 (FABP-4) and fatty acid binding protein 5(FABP5) are closely related and both are expressed in adipocytes. Mice with targeted disruption of FABP-4 accompany FABP-5 almost completely protect against diet-induced obesity, insulin resistance, dyslipidemia, type 2 diabetes, and fatty liver disease. While mice over expressing FABP5 in adipose have reduced insulin sensitivity.

Description

Total 163 AA. Mw:18.5 kDa (calculated). N-terminal His-tag and TEV cleavage site, 28 extra AA (highlighted).

Amino Acid Sequence

MSYYHHHHHH DYDIPTTENL YFQGAMGS MASLKDLEGK WRLMESHGFE
EYMKELGVGL ALRKMAAMAK PDCIITCDGN NITVKTESTV KTTVFSCNLG
EKFDETTADG RKTETVCTFQ DGALVQHQQW DGKESTITRK LKDGKMIVEC
VMNNATCTRV YEKVQ

Formulation

Lyophilized in 1 mg/mL in PBS.

Reconstitution

Add deionized water to prepare a working stock solution of approximately 1 mg/mL and let the lyophilized pellet dissolve completely.

Storage

Store lyophilized protein at –20°C. Aliquot reconstituted protein and store at –80°C. Avoid repeated freezing /thawing cycles.

Applications

Western blotting

Quality Control Test

BCA to determine quantity of the protein.
SDS PAGE to determine purity of the protein.

SDS - PAGE gel