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## Recombinant Human FABP5

Type:	Recombinant	Cat. No.:	41040
Tag:	His	Size:	0.1 mg
Source:	E.Coli	Purity :	>95%
Other names:	E-FABP; PA-FABP	Species:	Human

### 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 162 AA. Mw: 18.4 kDa (calculated). N-terminal His-tag and TEV cleavage site, 28 extra AA (highlighted).

### Sequence

<b>MSYYHHHHHH</b>	<b>DYDIPTTENL</b>	<b>YFQGAMGS</b>	ATVQQLEGR	WRLVDSKGF
EYMKELGVGI	ALRKMAMAK	PDCIITCDGK	NLTIKTESTL	KTTQFSCTLG
EKFEETTADG	RKTQTVCNFT	DGALVQHQEW	DGKESTITRK	LKDGKLVVEC
VMNNVTCTRI	YEKVE			

### Formulation

Filtered (0.22 µm) and 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

