

Recombinant human FABP1/L-FABP protein

Catalog Number: FAB0701

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-127aa

UniProt No.

P07148

NCBI Accession No.

NP_001434.1

Alternative Names

Fatty acid binding protein 1, Fatty acid-binding protein, liver, FABPL, L-FABP, FABP1, Fatty acid binding protein 1, fatty acid binding protein 1 liver,

PRODUCT SPECIFICATION

Molecular Weight

16.3 kDa (147aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0)

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

FABP1 (Fatty acid binding protein1) encodes the fatty acid binding protein found in liver. FABP1 is composed of ten antiparallel beta strands that form a barrel with a bigger binding pocket than the other FABPs allowing it to accommodate two fatty acid. This protein binds free fatty acids and their coenzyme A derivatives, bilirubin, and

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some other small molecules in the cytoplasm; it may be involved in intracellular lipid transport and metabolism. Recombinant human FABP1, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MSFSGKYQLQ SQENFEAFMK AIGLPEELIQ KGKDIKGVSE IVQNGKHFKF TITAGSKVIQ
NEFTVGEECE LETMTGEKVK TVVQLEGDNK LVTTFKNIKS VTELNGDIIT NTMTLGDIVF KRISKRI

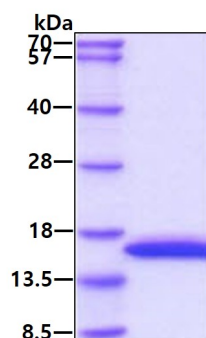
General References

Atshaves BP., et al. (2004). *Mol Cell Biochem.* 259(1-2): 115-29

Nakamura T., et al.(2005). *Diabetes Care.* 28(11) : 2728-32

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.