Recombinant human FABP4/A-FABP protein

Catalog Number: FAB0802

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-132aa

UniProt No.
P15090

NCBI Accession No.
NP_001433.1

Alternative Names
Fatty acid binding protein 4, IL-1 alpha, Hematopoietin-1, A-FABP, ALBP, FABP4, Fatty acid binding protein 4 adipocyte, AP2

PRODUCT SPECIFICATION

Molecular Weight
14.7 kDa (132aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 2mM EDTA, 10% glycerol

Purity
> 95% by SDS-PAGE

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

Tag
Non-Tagged

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
Fatty acid-binding protein 4 (FABP4), known as adipocyte FABP (A-FABP) or aP2, is a carrier protein for fatty acids that is primarily expressed in adipocyte and macrophages. FABP4 is secreted from adipocytes in a non-classical pathway associated with lipolysis and acts as an adipokine for the development of insulin resistance and

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atherosclerosis. Circulating FABP4 levels are associated with several aspects of metabolic syndrome and cardiovascular disease. Blocking this protein either through genetic engineering or drugs has the possibility of treating heart disease and the metabolic syndrome. Recombinant human FABP4 protein, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

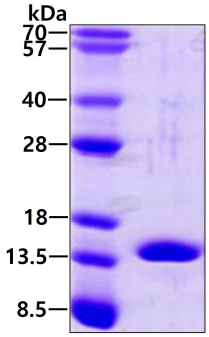
MCDAFVGTWK LVSSENFDDY MKEVGVGFAT RKVAGMAKPN MIISVNGDVI TIKSESTFKN TEISFILGQE FDEVTADDRK VKSTITLDGG VLVHVQKWDG KSTTIKRKRE DDKLVVECVM KGVTSTRVYE RA

General References

Furuhashi M., et al. (2007).Nature. 447(7147):959-65
Shum BO., et al. (2006).J Clin Invest. 116(8):2183-2192

DATA

SDS-PAGE



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