

Recombinant Human FABP4 protein (His Tag)

Catalog Number: Eg0880

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Human FABP4 protein Cys2-Ala132 (Accession# P15090) with a His tag at the C-terminus.

GeneID:

2167

Accession:

P15090

Predicted Molecular Mass:

15.7 kDa

SDS-PAGE:

13-15 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Fatty acid binding protein (FABP) 4 is a member of the FABP family which abundantly expressed, fatty acid carrier proteins. FABPs are capable of binding a variety of hydrophobic molecules such as long-chain fatty acids and are important for their uptake and intracellular trafficking. It was first identified as an adipocyte-specific protein, important for the maintenance of lipid and glucose metabolism. It is also detected in macrophages, where it participates in regulating inflammation and cholesterol trafficking via NF-κB and PPAR. In more recent studies, FABP4 has been found in a variety of endothelial cells, where it has been identified as a target of VEGF and a regulator of cell proliferation and possibly angiogenesis. Pathologically, FABP4 has been associated with the development of metabolic syndrome, diabetes and cancer and vulnerability of atherosclerotic plaques. FABP4 has been identified as a novel prognostic factor for both adverse cardiovascular events and breast cancer.

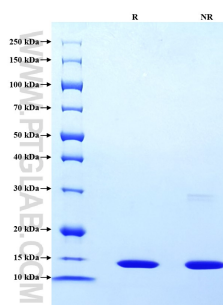
References

- 1.Lai W, et al. (2022) Eur J Pharmacol. 931:175224.
- 2.Floresta G, et al. (2022) Eur J Med Chem. 240:114604.
- 3.Furuhashi M, et al. (2014). Clin Med Insights Cardiol.8 (Suppl 3):23-33.
- 4.Furuhashi M. (2019) J Atheroscler Thromb. 26 (3):216-232.

Synonyms

FABP4, Adipocyte lipid-binding protein, Adipocyte-type fatty acid-binding protein, AFABP, ALBP

Selected Validation Data



Purity of Recombinant Human FABP4 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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