

Human FABP5 / E-FABP Protein

Catalog Number: 12581-HNAE



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

E-FABP; EFABP; KFABP; PA-FABP; PAFABP

Protein Construction:

A DNA sequence encoding the human FABP5 (Q01469) (Met 1-Glu 135) was expressed and purified.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 92 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met 1

Molecular Mass:

The recombinant human FABP5 consisting of 135 amino acids and has a calculated molecular mass of 15.2 kDa as estimated in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 50mM Tris, pH 8.0

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

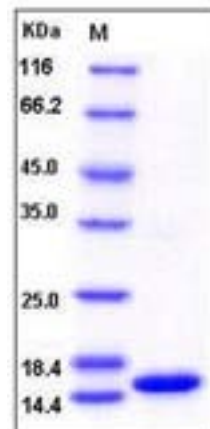
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Fatty acid-binding protein, also known as Epidermal-type fatty acid-binding protein, Fatty acid-binding protein 5, Psoriasis-associated fatty acid-binding protein homolog, E-FABP and FABP5, is a cytoplasm protein which belongs to the calycin superfamily and Fatty-acid binding protein (FABP) family. Fatty acid-binding proteins (FABPs) are postulated to serve as lipid shuttles that solubilize hydrophobic fatty acids and deliver them to appropriate intracellular sites. E-FABP / FABP5 is predominantly expressed in keratinocytes and is overexpressed in the actively proliferating tissue characteristic of psoriasis and wound healing. E-FABP / FABP5 exhibits an important role in binding free fatty acids, as well as regulating lipid metabolism and transport. E-FABP / FABP5 has high specificity for fatty acids. It has highest affinity for C18 chain length. Decreasing the chain length or introducing double bonds reduces the affinity of FABP5. E-FABP / FABP5 may be involved in keratinocyte differentiation.

References

1. Hohoff C., et al., 1999, Biochemistry 38:12229-39
2. Gutierrez-Gonzalez L.H., et al., 2002, Biochem. J. 364:725-37.
3. Ogawa, E. et al., 2011, J Invest Dermatol. 131 (3):604-12.

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