

Human BLBP / FABP7 Protein

Catalog Number: 12577-HNAE



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

B-FABP; BLBP; FABPB; LTR2-FABP7; MRG

Protein Construction:

A DNA sequence encoding the mature form of human FABP7 (O15540) (Met1-Ala132) was expressed.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 95 % 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

Molecular Mass:

The recombinant human FABP7 consists of 132 amino acids and predicts a molecular mass of 14.9 KDa. It migrates as an approximately 16 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

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:

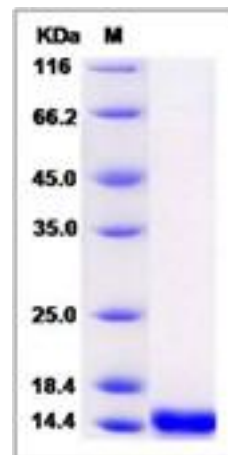
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

BLBP, also known as FABP7, is a brain fatty acid binding protein. Fatty acid binding proteins (FABPs) are a family of small, highly conserved, cytoplasmic proteins that bind long-chain fatty acids and other hydrophobic ligands. FABP7 binds DHA with the highest affinity among all of the FABPs. FABPs may play roles in fatty acid uptake, transport, and metabolism. BLBP is expressed, during development, in radial glia by the activation of notch receptors. It was shown that reelin induces FABP7 expression in neural progenitor cells via notch-1 activation. BLBP variation is linked to weak prepulse inhibition (PPI) in mice and deficit in PPI is an endophenotypic trait observed in schizophrenia patients and their relatives.

References

1. Shi YE, *et al.* (1997) Antitumor activity of the novel human breast cancer growth inhibitor, mammary-derived growth inhibitor-related gene, MRG. *Cancer Res.* 57(15):3084-91.
2. Young JK, *et al.* (1997) Immunoreactivity for brain-fatty acid binding protein in gomori-positive astrocytes. *Glia.* 16(3):218-26.
3. Xu LZ, *et al.* (1996) Ligand specificity of brain lipid-binding protein. *J Biol Chem.* 271(40): 24711-9.

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