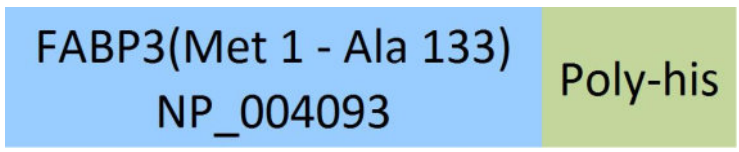
Synonym

FABP3,H-FABP,FABP11,MDGI,M-FABP,hFABP,O-FABP

Source

Human FABP3, His Tag (FA3-H5128) is expressed from E.coli cells. It contains AA Met 1 - Ala 133 (Accession # NP_004093).
Predicted N-terminus: Met 1

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 15.7 kDa. The protein migrates as 15-17 kDa under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

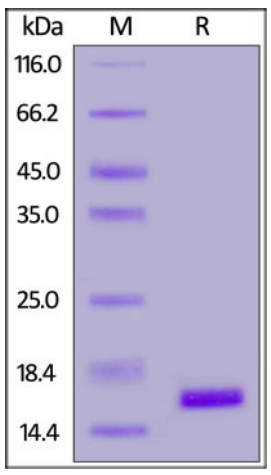
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human FABP3, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Background

Fatty acid-binding protein 3 (FABP3) is also known as Heart-type fatty acid binding protein (H-FABP), Mammary-derived growth inhibitor (MDGI), Muscle fatty acid-binding protein (M-FABP), FABP11, which belongs to the calycin superfamily and fatty-acid binding protein (FABP) family. FABP are thought to play a role in the intracellular transport of long-chain fatty acids and their acyl-CoA esters. H-FABP / FABP3 is involved in active fatty acid metabolism where it transports fatty acids from the cell membrane to mitochondria for oxidation. FABP3 may also contribute to AS160 phosphorylation by maintaining insulin-dependent Akt activation in the cells under a lipotoxic condition.

References

(1) Offner G.D., et al., 1988, Biochem. J. 252:191-198.

(2) Boerchers T., et al., 1990, Mol. Cell. Biochem. 98:127-133.

(3) Kleine AH., et al., 1992, Mol. Cell. Biochem. 116 (1–2): 155–62.

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.