Recombinant Human FABP3 Protein (His Tag)

Catalog No. PKSH033329

Note: Centrifuge before opening to ensure complete recovery of vial contents.

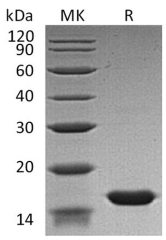
Description

Synonyms	Fatty Acid-Binding Protein Heart, Fatty Acid-Binding Protein 3, Heart-Type Fatty Acid-Binding Protein, H-FABP, Mammary-Derived Growth Inhibitor, MDGIMuscle Fatty Acid-Binding Protein, M-FABP, FABP3, FABP11, MDGI, H-FABP, O-FABP
Species	Human
Expression Host	E.coli
Sequence	Val2-Ala133
Accession	P05413
Calculated Molecular Weight	17.0 kDa
Observed molecular weight	15 kDa
Tag	N-His
Bioactivity	Testing in progress

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed man
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

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Background

Fatty Acid Binding Protein 3 (FABP3) is a small cytoplasmic protein (15 kDa) that is released from cardiac myocytes following an ischemic episode. Like the nine other distinct FABPs that have been identified; FABP3 is involved in active fatty acid metabolism where it transports fatty acids from the cell membrane to mitochondria for oxidation. FABPs are divided into at least three distinct types; namely the hepatic-; intestinal- and cardiac-types. They form 14-15 kDa proteins and are thought to participate in the uptake; intracellular metabolism and/or transport of long-chain fatty acids. They may also be responsible in the modulation of cell growth and proliferation. The FABP3 gene contains four exons and its function is to arrest growth of mammary epithelial cells. This gene is also a candidate tumor suppressor gene for human breast cancer. FABP3 is a sensitive biomarker for myocardial infarction and can be detected in the blood within one to three hours of onset of pain.

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