RECOMBINANT HUMAN HEART FATTY ACID BINDING PROTEIN (H-FABP, FABP3)

(E.coli-derived)

Catalog no	HC2105 (lot number and expiry date are indicated on the label)
Description	Human heart fatty acid binding protein (H-FABP) is derived from the human *FABP3* gene. FABPs are small intracellular proteins (~13-14 kDa) with a high degree of tissue specificity that bind long chain fatty acids. They are abundantly present in various cell types and play an important role in the intracellular utilization of fatty acids, transport and metabolism. There are at least nine distinct types of FABP, each showing a specific pattern of tissue expression. Due to its small size, FABP leaks rapidly out of ischemically damaged necrotic cells leading to a rise in serum levels. Ischemically damaged tissues are characterized histologically by absence (or low presence) of FABP facilitating recognition of such areas. H-FABP is localized in the heart, skeletal and smooth muscle, mammary epithelial cells, aorta, distal tubules of the kidney, lung, brain, placenta, and ovary.
Aliases	FABP3, Muscle fatty acid-binding protein, Mammary-derived growth inhibitor
Species	Recombinant N-terminal His-tag protein expressed in *E.coli,* MW 19 kD
Formulation	Lyophilized product in PBS, containing 50 µg. Reconstitute the vial by injection of 1 ml distilled or de-ionized water (Caution: vial is under vacuum).
Use	For dilutions use protein stabilized phosphate buffered saline, pH7. It is recommended that users test the reagent and determine their own optimal dilutions.
Storage and stability	Lyophilized product should be stored at 4°C. Store stock solution in aliquots at –20°C. Repeated freeze and thaw cycles will cause loss of activity. Under recommended storage conditions, product is stable for one year.
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.
Also available	HC3101 Recombinant rat I-FABP, E.coli-derived, 50 µg HC3102 Recombinant rat L-FABP, E.coli-derived, 50 µg HM2016 Monoclonal antibody against Human H-FABP, clone 66E2 HM2018 Monoclonal antibody against Human H-FABP, clone 67D3