BioVendor - Laboratorní medicína a.s.
Karásek 1767/1
621 00 Brno-Řečkovice a Mokrá Hora

Date of issue: 20.08.2018

PRODUCT DATASHEET

Gastrotropin Human E. coli

Cat. No.: RD172248100
Type: Recombinant protein
Size: 0.1 mg
Source: E. coli
Species: Human

Description
Total 137 AA. MW: 15.5 kDa (calculated). UniProtKB acc.no. P51161. N-Terminal His-tag (10 extra AA)

Other names
FABP6, GT, Fatty acid-binding protein 6, Ileal lipid-binding protein, ILBP, Intestinal 15 kDa protein, I-15P, Intestinal bile acid-binding protein, I-BABP, ILBP, ILLBP

Introduction to the molecule
FABP6 is protein from family fatty acid-binding proteins (FABPs). FABP6 is highly expressed in the enterocytes of ileum and to a lesser extent in the luteal cells of ovaries, placenta and adrenal glands. FABP6 acts as an intracellular transporter of bile acids in ileal epithelial cells, helping to metabolize cholesterol. FABP6 plays a significant role in granulosa cells differentiation required for follicular rupture.

FABP6 is potential biomarker for various cancers and it may be useful clinically in cancer diagnosis and for the assessment of cancer therapy. The expression of FABP6 was higher in primary colorectal cancers and adenomas than in normal epithelium, but was dramatically decreased in lymph node metastases. Tumors with high FABP6 expression were more frequently located in left colon than the right colon and had shallower invasion into the bowel wall. Tumors with high expression FABP6 were smaller in size. Increase FABP6 expression were described for prostate, bladder and renal cell carcinoma.

Research topic
Oncology, Others, Reproduction

Amino Acid sequence
MKHHHHHHAS AFTGKFEMES EKNYDEFMKL LGISSDVIEK ARNFKIVTEV QQDGQDFTWS QHYSGGHTMT NKFTVGKESN IQTMGGKTFK ATVQMEGGKL VVNFPNYHQT SEIVGDKLVE VSTIGGVTYE RVSKRLA

Purity
Purity as determined by densitometric image analysis: >95%

Endotoxin
< 0.1 EU/µg

Formulation:
Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 20 mM Tris buffer, 50 mM NaCl, pH 7.5.

Reconstituion:
Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Filter sterilize your culture media/working solutions containing this non-sterile product before using in cell culture.

Shipping
At ambient temperature. Upon receipt, store the product at the temperature recommended below.

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Storage, Stability/Shelf Life
Store lyophilized protein at –80°C. Lyophilized protein remains stable until the expiry date when stored at –80°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at –80°C for long term storage. Reconstituted protein can be stored at 4°C for a week.

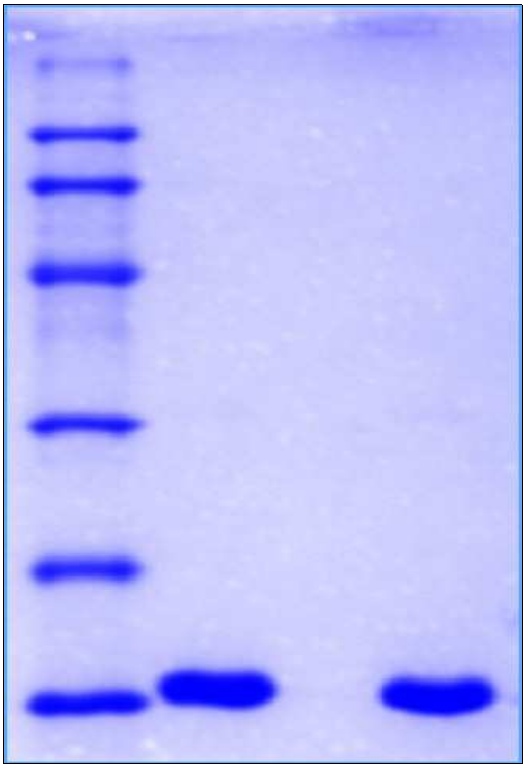
Quality control
BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

LAL to determine quantity of endotoxin.

Applications
ELISA, Western blotting

Note
This product is intended for research use only.



14% SDS-PAGE separation of Human Gastrotropin
1. M.W. marker – 14, 21, 31, 45, 66, 97 kDa
2. reduced and heated sample, 2.5µg/lane
3. non-reduced and non-heated sample, 2.5µg/lane

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