

BioVendor new products

March 11, 2015

Dear customer, we would like to introduce our new products and hope you will find them interesting. Below is a list of events, in which we plan to participate in 2015:

11th Spring School (08 \ 03 \ 2015 - 13 \ 03 \ 2015 - Ettal)

WCN (13 \ 03 \ 2015 - 17 \ 03 \ 2015 - Cape Town)

DGE 2015 (18 \ 03 \ 2015 - 21 \ 03 \ 2015 - Lübeck)

AACC (26 \ 07 \ 2015 - 30 \ 07 \ 2015 - Atlanta)

MEDICA 2015 (16 \ 11 \ 2015 - 19 \ 11 \ 2015 - Düsseldorf)

IMMUNOASSAYS

» FEATURED PRODUCT: HUMAN AFAMIN ELISA

A unique commercial ELISA kit for the quantification of AFAMIN – a novel independent predictor for the development of insulin resistance and metabolic syndrome.

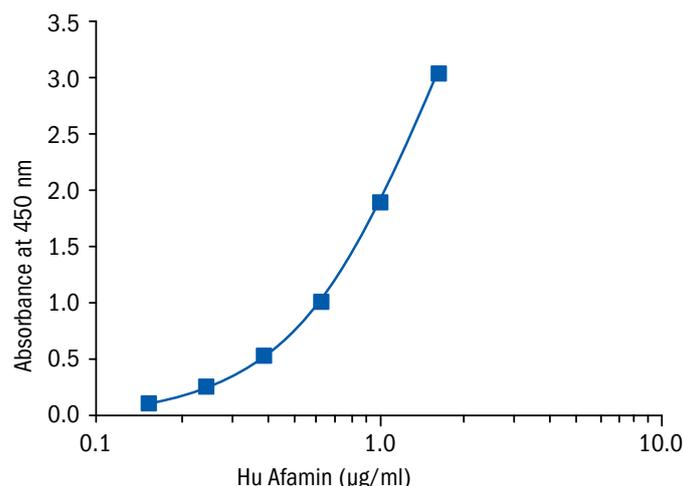
- Patented: "**Method for diagnosing the metabolic syndrome (ms)**", WO 2009029971 A1
- Validated for human **serum** and **plasma** (EDTA, Heparin, citrate) samples
- Short assay protocol (2h 15min)
- All the test procedures can be performed in room temperature
- Areas of investigation: **Energy metabolism and body weight regulation**

Mature human afamin, the product of the AFM gene, is a single chain 75kDa protein consisting of 578 amino acid residues. AFM is a member of the albumin gene family.

Afamin is predominantly expressed in the liver and secreted into the bloodstream; minor expressions have been described also in the human brain, heart, kidney, testis and ovary. Afamin possesses multiple binding sites for α -tocopherol and γ -tocopherol, two of the most important forms of vitamin E.

Human plasma afamin was very recently reported to be highly significantly associated with criteria for metabolic syndrome. Data from a prospective study as well as corresponding data from afamin-transgenic mice suggest an active role of afamin in the development of metabolic syndrome. In patients with polycystic ovary syndrome, afamin might serve as a discriminatory predictive parameter of insulin resistance and metabolic syndrome.

Afamin has also been identified as a potential biomarker for ovarian cancer showing significant associations between afamin plasma concentrations and clinical outcomes (response to therapy and survival rates).



NEW IMMUNOASSAYS

CAT. NO.	NAME	IVD/RUO	ASSAY FORMAT
RD194428100R	Human Afamin ELISA	RUO	Sandwich ELISA, HRP-labelled antibody
RD193398200CS	Human Cystatin B ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD193262200CS	Human Cysteine-Rich Secretory Protein 3 ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD191403200CS	Human Fibronectin ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD191437200CS	Human Galectin-1 ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD191407100R	Human Haptoglobin ELISA	RUO	Sandwich ELISA, HRP-labelled antibody

RD193404200CS	Human	Hepsin ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD193444200CS	Human	Chitinase-3-Like Protein 2 ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD191041200R	Human	Insulin Receptor	RUO	Sandwich ELISA, Biotin-labelled antibody
RD191484200CS	Human	Kallikrein 11 ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD194334200R	Human	Lactoferrin ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD193443200CS	Human	Macrophage Migration Inhibitory Factor ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD194440200CS	Human	Matrix Metalloproteinase-2 (MMP-2) ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD193438200CS	Human	Matrix Metalloproteinase-7 (MMP-7) ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD193439200CS	Human	Matrix Metalloproteinase-9 (MMP-9) ELISA, High Sensitivity	RUO	Sandwich ELISA, Biotin-labelled antibody
RD191401200CS	Human	Parvalbumin α ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD191304100R	Human	Prolactin-Inducible Protein ELISA	RUO	Sandwich ELISA, HRP-labelled antibody
RD191319200R	Human	Proline-Rich Acidic Protein 1 ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD191083200CS	Human	Regenerating Islet-Derived Protein 4 ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD191217210CS	Human	S100A8 ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD194218200CS	Human	S100A9 ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RAT002R	Human	S-Adenosyl Homocystein (SAH) ELISA	RUO	Competitive ELISA
RAT001R	Human	S-Adenosyl Methionine (SAM) ELISA	RUO	Competitive ELISA
RD191397200CS	Human	Synuclein Gamma ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD191400200CS	Human	T-Cell Immunoglobulin and Mucin Domain Containing 4 (TIM4) ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD391160200R	Rat	Trefoil Factor 3 ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD191343100R	Human	Urinary Trypsin Inhibitor ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody
RD194442200CS	Human	VEGF-D ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody

EXPANSION OF IVD PRODUCTS

Within the framework of our continuous expansion of **IVD products**, we are happy to announce that **Human Corticosteroid-Binding Globulin ELISA** and **Human Uromodulin ELISA** are now available for IVD use.

RECOMBINANT PROTEINS

» FEATURED PRODUCT: HUMAN SERGLYCIN

Serglycin is an intracellular proteoglycan expressed by hematopoietic cells, but can also be secreted and incorporated into the extracellular matrix. It belongs to a family of small proteoglycans with serine-glycine dipeptide repeats and is modified with various glycosaminoglycan side chains. Serglycin is a dominant proteoglycan in immune cells, but is also expressed by a number of nonhematopoietic cell types, including endothelial cells, chondrocytes and smooth muscle cells. Serglycin synthesized by inflammatory and stromal cells is secreted either constitutively or in a regulated manner. Human serglycin consists of a core protein (17.6 kDa) decorated with glycosaminoglycan chains (e.g., chondroitin-4-sulfate (CS-4), CS-6, CSE, CSB, or heparin). The core protein of human serglycin has 158 amino acid residues that form three functional domains.

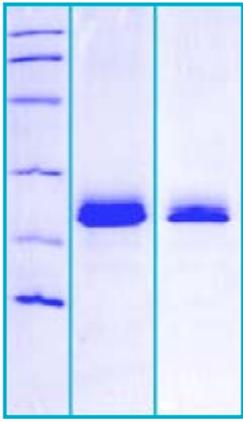
Serglycin has been extensively studied in the immune system, where it is expressed and is essential to the functions of mast cells, cytotoxic T-lymphocytes (CTL), monocytes, and neutrophils. Serglycin is involved in apoptosis, cell growth, inflammation, hemostasis and the reproductive system.

Serglycin plays a major role in various diseases, including cancer (tumor metastasis) and inflammation. Serglycin has been shown to be a biomarker of acute myeloid leukemia (levels are higher than in acute lymphoblastic leukemia patients), invasive nasopharyngeal carcinoma (NPC) and breast cancer. Serglycin demonstrates a role in protecting myeloma cells from complement attacks induced by antibody immunotherapy, therefore promoting the survival of malignant myeloma cells.

Serglycin is involved in platelet-associated disorders (gray platelet syndrome, impaired hemostasis) and may also affect atherosclerosis and the progression of coronary arterial disease.

As a secreted glycoprotein, serglycin could be an ideal serum marker for predicting and monitoring cancer progression. Serglycin expression was found to distinguish acute myeloid leukemia from acute lymphoblastic leukemia.

BioVendor's Human Serglycin is a 137-AA recombinant protein expressed in human cell line HEK293. The C-terminal His-tag sequence (HHHHHH) has been added to make detection, immobilization or purification possible. The protein is in 0.25–0.70 mg/ml solution in phosphate buffered saline, 20 % (w/v) glycerol, filtered (0.4 μ m), frozen.



14 % SDS-PAGE separation of Human Serglycin (HEK):

1. M.W. marker – 14, 21, 31, 45, 66, 97 kDa
2. Reduced and boiled sample, 2.5 µg/lane
3. Non-reduced and non-boiled sample, 2.5 µg/lane

RELATED PRODUCTS

[RD172368100](#) Serglycin Human *E. coli*

NEW RECOMBINANT PROTEINS

CAT. NO.	NAME	SIZE	SOURCE
RD372347100	Rat Betatrophin	0.1 mg	<i>E. coli</i>
RD172418100	Human Cadherin-1	0.1 mg	HEK293
RD172177100	Human CTRP4	0.1 mg	HEK293
RD172361100	Human Cyclophilin C	0.1 mg	<i>E. coli</i>
RD172362100	Human Cyclophilin-40	0.1 mg	<i>E. coli</i>
RD172430100	Human Ephrin Type-A Receptor 2	0.1 mg	HEK293
RD172478100	Human FAM19A5	0.1 mg	<i>E. coli</i>
RD172393100	Human FGF-18	0.1 mg	<i>E. coli</i>
RD172270100	Human Gastrokine-3	0.1 mg	<i>E. coli</i>
RD172346100	Human Glypican-4	0.1 mg	<i>E. coli</i>
RD172409100	Human Chitinase-3-Like Protein 2	0.1 mg	<i>E. coli</i>
RD172433100	Human Inositol Oxygenase	0.1 mg	<i>E. coli</i>
RD172201100	Human Insulin-Degrading Enzyme	0.1 mg	<i>E. coli</i>
RD172436100	Human Kallistatin	0.1 mg	HEK293
RD172150100	Human KIM-1	0.1 mg	HEK293
RD172256100	Human Lysophosphatidylcholine Acyltransferase 1	0.1 mg	<i>E. coli</i>
RD172188100-HEK	Human Mammaglobin A (Fc Chimera)	0.1 mg	HEK293
RD172005100-HEK	Human Myostatin	0.1 mg	HEK293
RD172058100-HEK	Human Myostatin Propeptide	0.1 mg	HEK293
RD172313100	Human NKG2D Ligand 3	0.1 mg	<i>E. coli</i>
RD172314100	Human NKG2D Ligand 4	0.1 mg	<i>E. coli</i>
RD172477100	Human Pentraxin 3	0.1 mg	HEK293
RD172473100	Human Proprotein Convertase Subtilisin/Kexin Type 9	0.1 mg	HEK293
RD172167100-HEK	Human Renin	0.1 mg	HEK293
RD172368100-HEK	Human Serglycin	0.1 mg	HEK293
RD172411100	Human Thymic Stromal Lymphopoietin	0.1 mg	<i>E. coli</i>
RD172307100	Human Vanin-1	0.1 mg	<i>E. coli</i>

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