

BioVendor new products

October, 2018

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 2018:

MEDICA 2018 (12 \ 11 \ 2018 - 15 \ 11 \ 2018 - Dusseldorf)

miRNA

NEW miREIA KITS

CAT. NO.	STATUS	NAME	ASSAY FORMAT
RDM0010H	New	hsa-miR-197-3p	miREIA - miRNA enzyme immunoassay
RDM0022H	New	hsa-miR-486-5p	miREIA - miRNA enzyme immunoassay
RDM0021H	New	hsa-miR-423-3p	miREIA - miRNA enzyme immunoassay
RDM0008H	New	hsa-miR-16-5p	miREIA - miRNA enzyme immunoassay
RDM0012H	New	hsa-miR-24-3p	miREIA - miRNA enzyme immunoassay
RDM0023H	New	hsa-miR-let-7a-5p	miREIA - miRNA enzyme immunoassay



Introducing miREIA Kits - now more affordable for a limited time!

We have reduced the price of miREIA kits

You can order each of them for **495 EUR**

www.biovendor.com/mirna

miREIA - miRNA Enzyme Immunoassay

» FEATURED PRODUCT: hsa-miR-let-7a-5p miREIA

Let-7a-5p, a member of the let-7 miRNA family acts as a **tumor suppressor**. Cell proliferation, colony formation, migration and invasion were decreased after induced **overexpression** of let-7a in **breast cancer cells**.

Down-regulation of miR-let-7a-5p is **associated with oncological diseases**. Reduced levels of miR-let-7a-5p were reported in **lung squamous carcinoma**, colorectal cancer, **urothelial tumors**, **lymphoms**, **breast cancer** and many other diagnoses.



Apart from its role in tumor suppression, miR-let-7a is involved in cell proliferation pathway in human cells. miRNA-let-7a can act as a regulator of the function of microglia in inflammation and is **connected to cerebrovascular** and **neurodegenerative diseases**.

For these and more BioVendor miREIA kits, please visit www.biovendor.com/mirna.

microRNAs (miRNAs) are a class of single-stranded non-coding RNA molecules with a length of 19-23 nucleotides. They play a role in negative post-transcriptional regulation by binding to complementary sequences on mRNA and blocking translation into protein.

miREIA is a BioVendor proprietary method based on combination of immunoassay and molecular biological principles. The main advantage is the **quantitative determination of miRNA** concentrations.

NEW IMMUNOASSAYS

CAT. NO.	NAME	IVD/RUO	ASSAY FORMAT
RD191058200R	Human Myostatin (Prodomain Specific) ELISA	RUO	Sandwich ELISA, Biotin-labelled antibody

» FEATURED PRODUCT: HUMAN MYOSTATIN (PRODOMAIN SPECIFIC) ELISA

Myostatin, a muscle-specific transforming growth factor- β (TGF- β), **negatively regulates skeletal muscle mass**.

Two molecules of the **N-terminal prodomain** of myostatin noncovalently binds to and **suppresses** the C-terminal mature domain homodimer as an **inactive circulating Myostatin Latent Complex**. A majority (**>70%**) of myostatin in serum is bound in the complex.

The circulating Myostatin Latent Complex has significantly reduced activity compared with the mature growth factor and persists as a stable complex that is resistant to the natural antagonist follistatin.

- Validated for human serum, plasma (EDTA, citrate, heparin), urine, and cerebrospinal fluid
- The kit measures total Myostatin Latent Complex and free Myostatin Prodomain
- Excellent sensitivity (LOD 0.05 ng/ml)

RELATED PRODUCTS

[RD172005300](#) Myostatin Human *E. coli*

[RD172005100-HEK](#) Myostatin Human HEK293

[RD172058100](#) Myostatin Propeptide Human *E. coli* Tag free

[RD172058100-HEK](#) Myostatin Propeptide Human HEK293

[RD181005220](#) Myostatin Human, Bovine PAb

[RD183057050](#) Myostatin Propeptide Human, Chicken PAb

[RD1820571004B9](#) Myostatin Propeptide Human, Mouse MAb, Clone: 4B9

[RD1820571006E8](#) Myostatin Propeptide Human, Mouse MAb, Clone: 6E8

NEW PROTEINS

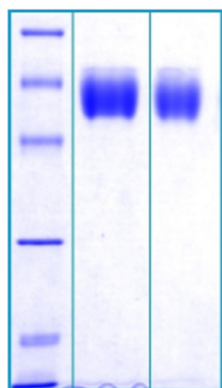
CAT. NO.		NAME	SIZE	SOURCE
RD172367025	Human	Angiotensinogen HEK293	0.025 mg	HEK293
RD172122025-HEK	Human	Lecithin-Cholesterol Acyltransferase	0.025 mg	HEK293
RD172370025	Human	Leukocyte Cell-Derived Chemotaxin-2	0.025 mg	<i>E. coli</i>
RD172114025-HEK	Human	Pigment Epithelium-Derived Factor	0.025 mg	HEK293

» FEATURED PRODUCT: HUMAN ANGIOTENSINOGEN HEK293

Human **angiotensinogen (AGT)** is a component of the renin-aldosterone-angiotensin system (**RAAS**), a hormone system that **regulates blood pressure** and fluid balance. AGT is the only **precursor of all angiotensin peptides** (I, II, III, and IV) and the cleavage of AGT by renin is the rate-limiting step of RAAS. AGT is **mainly produced in the liver and secreted in plasma** but also is synthesized in adipocytes, proximal tubule epithelial cells, and astrocytes. AGT identified in urine (**UAGT**) is produced and **secreted by the kidney proximal tubules** and does not come from plasma. UAGT reflects intrarenal angiotensin II activity associated with increased risk for deterioration of renal function in patients with **chronic kidney disease** such as diabetic nephropathy and membranous nephropathy as well as in patients with **acute kidney injury**. Urinary AGT is increased in **hypertensive** patients.

BioVendor produces recombinant Human angiotensinogen in HEK293 cell line. The protein contains 462 AA. MW: 51.0 kDa (calculated).

The AA sequence is identical to UniProtKB acc. No. P01019 (Asp34-Ala485). The recombinant protein contains C-terminal linker (2 extra AA) and C-terminal FLAG-tag (8 extra AA). Protein identity confirmed by LC-MS/MS. Endotoxin-free.



12% SDS-PAGE separation of Human AGT:

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

See more about [Angiotensinogen Human HEK293](#)

RELATED PRODUCTS

[RD191367100R](#) Angiotensinogen Human ELISA

NEW ANTIBODIES

CAT. NO.		PRODUCT	REACTIVE SP.	SIZE
RD481488100	Anti-Canine	Procalcitonin	Rabbit Polyclonal Antibody	0.1 mg
RD484488100	Anti-Canine	Procalcitonin	Sheep Polyclonal Antibody	0.1 mg

» FEATURED PRODUCTS: ANTI-CANINE PROCALCITONIN RABBIT AND SHEEP POLYCLONAL ANTIBODIES

Procalcitonin (PCT) the precursor of the hormone calcitonin is a 116 amino acid protein with a molecular mass of 13 kDa. The level of procalcitonin in the blood of healthy individuals is low.

Bacterial lipopolysaccharide (LPS) is a potent inducer of procalcitonin release into systemic circulation. In humans, procalcitonin levels increase from 3 to 4 hours, peak at about 6 hours and then plateau for up to 24 hours. **PCT concentrations specifically increases in response to bacterial infection.** Today procalcitonin is one of the **earliest and most specific markers of sepsis.**

The antibodies have been obtained from rabbits or sheep, respectively, immunized with a recombinant Canine Procalcitonin produced in *E.coli*. The antibodies have been immunoaffinity purified using the immunization antigen. The antibodies were validated for ELISA application and extended for veterinary focused product line of BioVendor.

See more about [PCT Canine Rabbit PAb](#) or [PCT Canine Sheep PAb](#)

RELATED PRODUCTS

[RD491488200R](#) Procalcitonin Canine ELISA

[RD191006200R](#) Procalcitonin Human ELISA

[RD472006100](#) Procalcitonin Canine *E. coli*

[RD872582100](#) Procalcitonin Horse *E. coli*

[RD172006100](#) Procalcitonin Human *E. coli*

[RD272006100](#) Procalcitonin Mouse *E. coli*

[RD572451100](#) Procalcitonin Porcine *E. coli*

[RD372450100](#) Procalcitonin Rat *E. coli*

[RD872006100](#) Procalcitonin Rhesus *E. coli*