



## THE CARDIOVASCULAR ELISA PRODUCT LINE

Setting the standard for clinical research. **BIOMEDICA**

### Enzyme immunoassays for the quantitative determination of Endothelin, Big Endothelin-1, proANP, BNP Fragment, NT-proBNP and NT-proCNP in human samples.

**(Big) Endothelin** is a potent vasoconstrictor and produced by vascular endothelial cells. Accordingly it has a wide tissue distribution. Both Big ET and ET are strong independent predictors of survival in patients with congestive heart failure, and identify a population with a very high risk of mortality. Big ET and ET are valuable parameters in the supervision and monitoring of clinical studies.

The **natriuretic peptides ANP** and **BNP** exert diuretic, natriuretic, and vasodilatory effects and thus contribute to the regulation of cardiovascular and body-fluid homeostasis and blood pressure control: These effects result from interference with the renin-angiotensin-system, endothelins, and sympathetic nervous system. ANP appears to be a cardiovascular risk factor, particularly in the context of hypertension, stroke, obesity, and

metabolic syndrome. BNP is predictive of cardiac dysfunction, in particular left ventricular dysfunction, and is a useful marker of future outcomes in patients with acute coronary syndromes and congestive heart failure.

The **gene encoding CNP** is expressed in various tissues, with particularly high concentrations in the vascular endothelium and chondrocytes, inducing vasorelaxation and vascular remodeling, as well as regulating bone growth. The prognostic value of NT-proCNP in critically ill patients has been reported with highest levels observed in sepsis patients.

Please contact Mbioscience Solutions for Biomedica's products.

**Samples can be measured directly in these assays without further extraction or pre-dilution steps. All Biomedica ELISAs are fully validated and contain human based calibrators and controls.**

#### proANP ELISA (BI-20892) - CE mark

Method	Sandwich ELISA, HRP/TMB
Sample type	plasma, serum, urine, cell culture supernatants (human, rodents)
Sample size	10 µl / test, 12x8 tests
Standard range	0 – 10 nmol/l
Detection limit	0.05 nmol/l
Incubation time	3 h / 30 min



#### ENDOTHELIN ELISA (BI-20052) - CE mark

Method	Sandwich ELISA, HRP/TMB
Sample type	plasma, serum, urine, cell culture supernatants, saliva
Sample size	50 µl / test, 12x8 tests
Standard range	0 – 10 fmol/ml
Detection limit	0.02 fmol/ml
Incubation time	overnight / 1 h / 30 min



#### BNP Fragment EIA (BI-20852W) - RUO

Method	competitive EIA, HRP/TMB
Sample type	plasma, serum
Sample size	30 µl / test, 12x8 tests
Standard range	0 – 6,400 pmol/l
Detection limit	130 pmol/l at 95% B/B0
Incubation time	overnight / 20 min

#### BIG ENDOTHELIN-1 ELISA (BI-20082H) - CE mark

Method	Sandwich ELISA, HRP/TMB
Sample type	plasma, serum
Sample size	50 µl / test, 12x8 tests
Standard range	0 – 3 pmol/l
Detection limit	0.01 pmol/l
Incubation time	4 h / 1 h / 30 min



#### NT-proCNP ELISA (BI-20872) - CE mark

Method	Sandwich ELISA, HRP/TMB
Sample type	plasma, serum
Sample size	50 µl / test, 12x8 tests
Standard range	0 – 40 pmol/l
Detection limit	0.55 pmol/l
Incubation time	4 h / 30 min



#### NT-proBNP ELISA (SK-1204) - CE mark

Method	Sandwich ELISA, HRP/TMB
Sample type	plasma, serum
Sample size	50 µl / test, 12x8 tests
Standard range	0 – 640 pmol/l
Detection limit	3 pmol/l
Incubation time	3 h / 30 min

