Datasheet for ABIN5692227

NPPA ELISA Kit

1 Publication

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Overview

Quantity:	96 tests
Target:	NPPA
Binding Specificity:	AA 26-123
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2 pg/mL - 2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human NPPA. 96wells/kit, with removable strips.
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Expression system for standard: E.coli, Immunogen sequence: N26-R123
Sensitivity:	< 10 pg/mL
Components:	96-well plate precoated with antibody lyophilized recombinant standard

Product Details

	biotinylated antibody (dilution 1:100)
	Avidin-Biotin-Peroxidase Complex(ABC)(dilution 1:100)
	Sample diluent buffer
	Antibody diluent buffer
	ABC diluent buffer
	TMB color developing agent
	TMB stop solution
	Adhesive cover

Target Details

Target:	NPPA
Alternative Name:	NPPA (NPPA Products)
Background:	Synonyms: Natriuretic peptides A, CDD-ANF, Cardiodilatin, CDD, Cardiodilatin-related peptide, CDP, Prepronatriodilatin, Atrial natriuretic factor, ANF, Atrial natriuretic peptide, ANP, NPPA, ANP, PND Background: Atrial natriuretic peptide (ANP), also known as NPPA or PND, is a powerful vasodilator, and a protein (polypeptide) hormone secreted by heart muscle cells. This gene is mapped to 1p36.22. It is involved in the homeostatic control of body water, sodium, potassium and fat (adipose tissue). ANP is released by muscle cells in the upper chambers (atria) of the heart (atrial myocytes) in response to high blood volume. It acts to reduce the water, sodium and adipose loads on the circulatory system, thereby reducing blood pressure. ANP has exactly the opposite function of the aldosterone secreted by the zona glomerulosa in regard to its effect on sodium in the kidney - that is, aldosterone stimulates sodium retention and it generates sodium loss. Cellular Localisation: Secreted.
UniProt:	P01160

Application Details

Assay Time:	15 min
Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)
Expiry Date:	12 months

Publications

Product cited in:	Yuan, Pan, Fu, Bi: "Effect of growth factors (BMP-4/7 & bFGF) on proliferation & osteogenic differentiation of bone marrow stromal cells." in: **The Indian journal of medical research**, Vol. 138, pp. 104-10, (2014) (PubMed).