

ARG81988 Human ANP / Atrial Natriuretic Peptide ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81988-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81988-002	Standard	2 X 10 ng/vial	4°C
ARG81988-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81988-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81988-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81988-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81988-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81988-008	25X Wash buffer	20 ml	4°C
ARG81988-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81988-010	STOP solution	10 ml (Ready to use)	4°C
ARG81988-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81988 Human ANP / Atrial Natriuretic Peptide ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human ANP / Atrial Natriuretic Peptide in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	ANP / Atrial Natriuretic Peptide
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.6 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	31.2 - 2000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.8%; Inter-Assay CV: 7.4%
Alternate Names	CDD; Natriuretic peptides A; ANF; Cardiodilatin; Cardiodilatin-related peptide; Atrial natriuretic peptide; Prepronatriodilatin; ATFB6; CDP; ATRST2; ANP; CDD-ANF; PND

Application Instructions

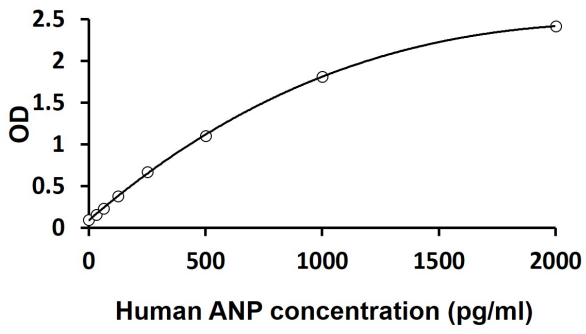
Assay Time	~ 5 hours
------------	-----------

Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	NPPA
Gene Full Name	natriuretic peptide A
Background	The protein encoded by this gene belongs to the natriuretic peptide family. Natriuretic peptides are implicated in the control of extracellular fluid volume and electrolyte homeostasis. This protein is synthesized as a large precursor (containing a signal peptide), which is processed to release a peptide from the N-terminus with similarity to vasoactive peptide, cardiodilatin, and another peptide from the C-terminus with natriuretic-diuretic activity. Mutations in this gene have been associated with atrial fibrillation familial type 6. [provided by RefSeq, Sep 2009]
Function	Hormone playing a key role in cardiovascular homeostasis through regulation of natriuresis, diuresis, and vasodilation. Also plays a role in female pregnancy by promoting trophoblast invasion and spiral artery remodeling in uterus. Specifically binds and stimulates the cGMP production of the NPR1 receptor. Binds the clearance receptor NPR3. [UniProt]
Highlight	Related products: Atrial Natriuretic Peptide antibodies ; Atrial Natriuretic Peptide ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Cleaved by CORIN upon secretion to produce the functional hormone. Atrial natriuretic factor: Cleaved by MME. The cleavage initiates degradation of the factor and thereby regulate its activity. [UniProt]



ARG81988 Human ANP / Atrial Natriuretic Peptide ELISA Kit standard curve image

ARG81988 Human ANP / Atrial Natriuretic Peptide ELISA Kit results of a typical standard run with optical density reading at 450 nm.