BMA BIOMEDICALS

Peninsula Laboratories

Atrial Natriuretic Factor (1-28) (mouse, rat, rabbit) ELISA

Atrial Natriuretic Factor (ANF) is a 28 amino acid polypeptide hormone secreted mainly by the heart atria in response to atrial stretch. ANF acts on the kidney to increase sodium excretion and GFR, to antagonize renal vasoconstriction, and to inhibit renin secretion.

This ELISA was developed with serum from rabbits immunized with Atrial Natriuretic Factor (1-28) coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product number: S-1132 (Lot A18067)

Host species: Rabbit IgG

Quantity: 96 tests

Format: Formulated for extracted samples (EIAH type).

Shelf-life: One year from date of purchase. Store refrigerated at 4° - 8°C.

Applications: This ELISA has been validated with the included reagents. It is intended to be used with appropriately extracted samples, following protocol III.

Please see **www.bma.ch** for protocols and general information.

Range: 0 - 10 ng/ml

Average IC_{50}: 0.2 ng/ml

Immunogen: Synthetic peptide H-Ser-Leu-Arg-Arg-Ser-Ser-Cys-Phe-Gly-Gly-Arg-Ile-Asp-Arg-Ile-Gly-Ala-Gln-Ser-Gly-Leu-Gly-Cys-Asn-Ser-Phe-Arg-Tyr-OH, (Disulfide bond) coupled to carrier protein.

Protein database: mouse-P05125, rat-P01161, rabbit-P07500

Cross-Reactivity:

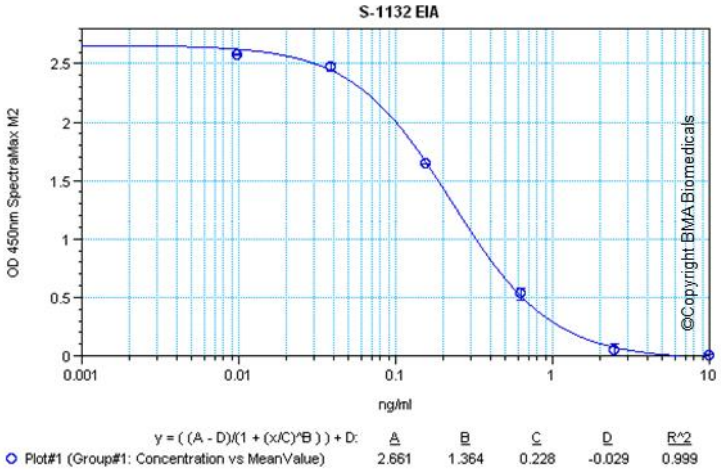
PEPTIDE	%
ANF (1-28) (mouse, rabbit, rat)	100
ANF (1-28) (human, bovine, camel, canine, feline, equine, ovine, porcine, rorqual whale, tree shrew)	100
ANF (8-33) (rat)	100
Atriopeptin III (rat)	100
ANF (1-28) (Dimer, Antiparallel) (human)	100
Thr-Ala-Pro-Arg-Atrial Natriuretic Factor (1-28) (human)	100
Atrial Natriuretic Peptide (126-149) (rat)	100
ANF (4-28) (frog)	0.4
BNP-26 (porcine)	<0.1
ANF (1-11) (human)	0

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Cross-Reactivity:

PEPTIDE	%
Prepro-ANF (26-50) (human)	0
Endothelin-1 (human, Bovine, canine, mouse, porcine, rat)	0
BNP-32 (human)	0
BNP-45 (rat)	0
CNP (32-53) (human, porcine, rat)	0

Typical titration curve of ANF (1-28) in a competitive ELISA with this antibody:



Suggested Preparation of Standards		
	ng/ml	Range: 0.01 to 10ng/ml
Stock	1000	
S1	10.00	Add 10µl Stock + 990µl diluent
S2	2.50	Add 200µl S1 + 600µl diluent
S3	0.63	Add 200µl S2 + 600µl diluent
S4	0.16	Add 200µl S3 + 600µl diluent
S5	0.04	Add 200µl S4 + 600µl diluent
S6	0.01	Add 200µl S5 + 600µl diluent
S0	0.00	500µl diluent

Related Products:

S-1131: ELISA, high sensitivity for extracted samples, (hu, bo, po)
T-4013: Rabbit anti ANF (1-28), diluted antiserum, (ms, rb, rt)
T-4014: Rabbit anti ANF (1-28), purified IgG, (ms, rb, rt)
T-4015: Rabbit anti ANF (1-28), neat antiserum, (ms, rb, rt)

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Not for diagnostic or therapeutic applications.

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