



BMA BIOMEDICALS



Peninsula Laboratories

S-1231

Atrial Natriuretic Factor (Urodilatin) (1-28) (human, bovine, porcine) ELISA [UniProt: P01160, P07501, P24259]

Atrial Natriuretic Factor (ANF) is a 28 amino acid peptide hormone secreted mainly by the heart atria in response to atrial stretch. ANF acts on the kidney to increase sodium excretion and glomerular filtration rate (GFR), to antagonize renal vasoconstriction, and to inhibit renin secretion. In addition, Atrial Natriuretic Factor consists of Atrial Natriuretic Peptide (ANP) which exists in its precursor form, pro-ANP and it is an active ANP with a longer peptide chain (Urodilatin) and an antiparallel dimer of active ANP:

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

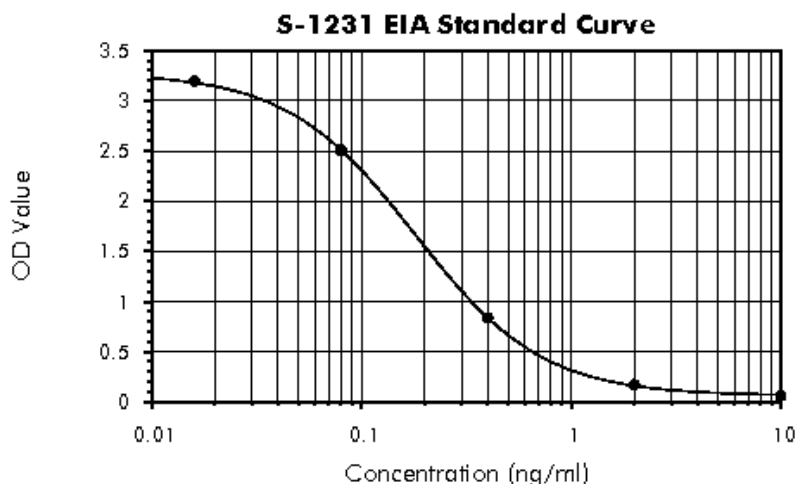
TECHNICAL AND ANALYTICAL CHARACTERISTICS

Lot number:	A18146
Host species:	Rabbit IgG
Quantity:	96 tests
Format:	Formulated for extracted samples (EIAH type).
Shelf-life:	One year from production date. 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 (original protocol III, Std.Ab1hr.Bt). For research use only. Please see www.bma.ch for protocols and general information.
Range:	0-10ng/ml
Average IC50:	0.18ng/ml
Immunogen:	Synthetic peptide H-Thr-Ala-Pro-Arg-Ser-Leu-Arg-Arg-Ser-Ser-Cys-Phe-Gly-Gly-Arg-Met-Asp-Arg-Ile-Gly-Ala-Gln-Ser-Gly-Leu-Gly-Cys-Asn-Ser-Phe-Arg-Tyr-OH, (Disulfide bond) coupled to carrier protein.

Cross-Reactivity:

PEPTIDE:	%:
Thr-Ala-Pro-Arg-Atrial Natriuretic Factor (1-28) (human)	100
ANF (1-28) (human)	100
ANF (1-28) (dimer, antiparallel) (human)	100
ANF (1-28) (rat)	100
BNP-32 (human)	0
CNP (32-53) (porcine, rat, human)	0
Endothelin-1 (human, porcine, canine, rat, mouse, bovine)	0

Typical titration curve of ANF (Urodilatin) (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: T-4010: anti ANF (1-28) (hu, bo, po), purified IgG
T-4009: anti ANF (1-28) (hu, bo, po), diluted antiserum
T-4015: anti ANF (1-28) (ms, rb, rt), neat antiserum
S-1132: ELISA (ms, rb, rt), high sensitivity for extracted samples

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Purchase of this product does not include authorization to use it in diagnostic or therapeutic applications.

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EIAH – hu, bo, po

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