BMA BIOMEDICALS

Peninsula Laboratories

Endothelin-1

(human, bovine, dog, mouse, porcine, rat) ELISA

Endothelin (ET-1) is a 21 amino acid peptide, also known as preproendothelin-1 (PPET1), that is produced by the vascular endothelium from a 39 amino acid precursor, big ET-1, through the actions of an endothelin converting enzyme (ECE) found on the endothelial cell membrane. ET-1 is involved in the regulation of cardiovascular functions where it has been implicated in the pathogenesis of hypertension, coronary vasospasm, and heart failure. It is also known to cause fibrosis of the vascular cells as well as to stimulate production of reactive oxygen species.

This ELISA was developed with serum from rabbits immunized with Endothelin-1 coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product number: S-1156 (Lot A18PO2050)

Host species: Rabbit IgG

Quantity: 96 tests

Format: Extraction-free kit for human serum or plasma (EIAS 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 samples of human origin, following protocol V.
Please see **www.bma.ch** for protocols and general information.

Range: 0 - 25 ng/ml

Average IC_{50}: 0.5 ng/ml

Immunogen: Synthetic peptide H-Cys-Ser-Cys-Ser-Ser-Leu-Met-Asp-Lys-Glu-Cys-Val-Tyr-Phe-Cys-His-Leu-Asp-Ile-Ile-Trp-OH, (Disulfide bonds between Cys1 and Cys15/Cys3 and Cys11) coupled to carrier protein.

Protein database: human-P05305, bovine-P17322, canine-P13206, mouse-P22387, porcine-P09558, rat-P22388

Cross-Reactivity:

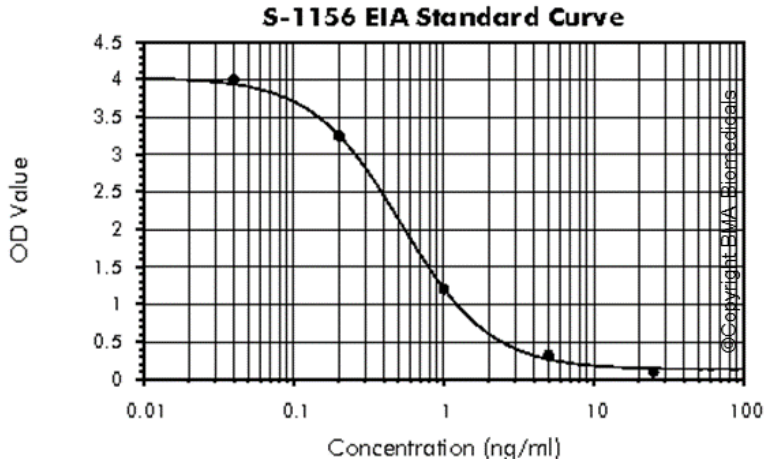
PEPTIDE	%
Endothelin-1 (human, porcine, canine, rat, mouse, bovine)	100
Endothelin-2 (human, canine)	100
Big Endothelin-1 (human)	100
Endothelin-3 (human, rat, porcine, rabbit)	0.005
Big Endothelin-1 (porcine)	100
ANF (1-28) (human)	<0.01

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Cross-Reactivity:

PEPTIDE	%
BNP-32 (human)	0
Angiotensin II	0
(Arg^8)-Vasopressin	0
VIP (human, bovine, porcine, rat)	0

Typical titration curve of Endothelin-1 in a competitive ELISA with this antibody:



Suggested Preparation of Standards		
	ng/ml	Range: 0.02 to 25ng/ml
Stock	1000	
S1	25.00	Add 25µl Stock + 975µl diluent
S2	6.25	Add 200µl S1 + 600µl diluent
S3	1.56	Add 200µl S2 + 600µl diluent
S4	0.39	Add 200µl S3 + 600µl diluent
S5	0.10	Add 200µl S4 + 600µl diluent
S6	0.02	Add 200µl S5 + 600µl diluent
S0	0.00	500µl diluent

Related Products:

T-4048: Rabbit anti Endothelin-1, diluted antiserum, (hu, ms, rt, po, others)
T-4049: Rabbit anti Endothelin-1, purified IgG, (hu, ms, rt, po, others)
T-4050: Rabbit anti Endothelin-1, neat antiserum, (hu, ms, rt, po, others)
T-5011: Guinea pig anti Endothelin-1, neat antiserum, (hu, ms, rt, po, others)
T-5010: Guinea pig anti Endothelin-1, diluted antiserum, (hu, ms, rt, po, others)

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