



BMA BIOMEDICALS



Peninsula Laboratories

S-1156

Endothelin-1 ELISA (human, bovine, dog, mouse, porcine, rat) [UniProt: P05305, P17322, P13206, P22387, P09558, P22388]

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 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

Lot number:	A18PO2050
Host species:	Rabbit IgG
Quantity:	96 tests
Format:	Extraction-free kit for human serum or plasma (EIAS 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 samples of human origin (original protocol V, Ab1hr.Std2hr.BtON). For research use only. Please see www.bma.ch for protocols and general information.
Range:	0 – 25ng/ml
Average IC50:	0.5ng/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.

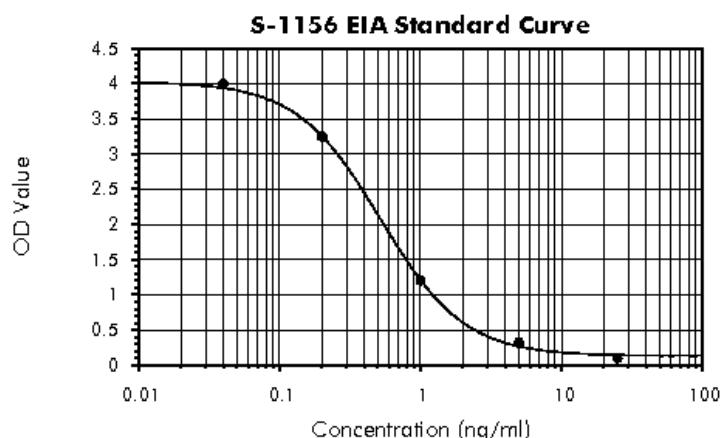
Cross-Reactivity:

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

Cross-Reactivity (continued):

PEPTIDE	%
ANF (1-28) (human)	<0.01
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: anti Endothelin-1, diluted antiserum, host: rabbit
T-4049: anti Endothelin-1, purified IgG, host: rabbit
T-4050: anti Endothelin-1, neat antiserum, host: rabbit
T-5011: anti Endothelin-1, neat antiserum, host: guinea pig
T-5010: anti Endothelin-1, diluted antiserum, host: guinea pig

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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EIAS

30.11.2020