

Technical Information

Big ET Big Endothelin

Cat. No.:	BI-20082H
Tests:	96
Method:	ELISA
Range:	0 – 3 pmol/l
LLOQ:	0.03 pmol/l (STD2 0.1 pmol/l)
Incubation time:	3.5 hours
Sample volume:	50 µl
Sample type:	Serum, plasma
Sample preparation:	Centrifuge freshly collected blood as soon as possible Store centrifuged samples at -20°C for longer storage. Samples are stable up to 4 freeze and thaw cycles. Hemolyzed or lipemic samples may cause erroneous results.
Reference values:	Median (serum) = 0.09 pmol/l (n = 41)
Species:	Human

Intended use:

Big Endothelin-1 (BigET) is a peptide of 38 amino acids and is the precursor of Endothelin-1 (ET), represented by amino acids 1-21 (<http://www.uniprot.org/uniprot/P05305>). ET is a potent vasoconstrictor and is produced by vascular endothelial cells. Accordingly it has a wide tissue distribution (<http://www.ncbi.nlm.nih.gov/UniGene/ESTProfileViewer.cgi?uglist=Hs.511899>). The cleavage of BigET by Endothelin Converting Enzyme (ECE) leads to ET and to a C-terminal fragment. Both BigET and ET are strong independent predictors of survival in patients with congestive heart failure, and identify a population with very high risk mortality. The half-life of ET (1-21) in plasma is less than one minute, whereas clearance of BigET is much slower. BigET can therefore be determined more easily.

Intended applications:

- atherosclerosis
- prognostic value in heart failure and acute myocardial infarction
- renal insufficiency during and after graft rejection
- atherosclerosis
- pulmonary hypertension and scleroderma

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