

Abbreviations and acronyms

β -ME	β -mercaptoethanol	GAPDH	glyceraldehyde-3-phosphate
ACEI	angiotensin-converting enzyme inhibitors	HMEC	human mammary epithelia cells
AF	area fraction	HMG-CoA	3-hydroxy-methyl-3- glutaryl coenzyme A
Ang II	angiotensin II	HRP	horseradish peroxidase
APS	ammonium persulfate	ICAM-1	intercellular adhesion molecule-1
bFGF	basic fibroblast growth factor	IFN	interferon
BH ₂	dihydrobiopterin	IL	interleukin
BH ₄	tetrahydrobiopterin	iNOS	inducible NOS
cDNA	complementary DNA	JNK	c-Jun aminoterminal kinase
CRP	C-reactive protein	KHS	Krebs-Henseleit solution
DIA	digital image analysis	LDL-C	low-density lipoprotein cholesterol
DNA	deoxyribonucleic acid	LFA-1	leukocyte-function antigen- 1
ECL	enhanced chemiluminescence	L-NAME	N-omega-nitro-L-arginine methyl ester
EDTA	ethylenediaminetetraacetic acid	LPS	lipopolysaccharide
EDV	endothelium-dependent vasodilation	MAPK	mitogen-activated protein kinases
EIDV	endothelium-independent vasodilation	MCP-1	monocyte chemoattractant protein-1
eNOS	endothelial nitric-oxide synthase	MMP	matrix metalloproteinase
ERK	extracellular-regulating kinase	mRNA	messenger RNA
ET-1	endothelin-1		
FBS	fetal bovine serum		

NADPH	nicotinamide adenine dinucleotide phosphate	SMC	smooth muscle cell
NF- κ B	nuclear factor kappa B	SNP	sodium nitroprusside
nNOS	neuronal NOS	SOD	superoxide dismutase
NO	nitric oxide	STZ	streptozotocin
NOS	NO synthase	TBS	tris-buffered saline
O ₂ ⁻	superoxide anions	TBST	tris-buffered saline with tween 20
ox-LDL	oxidised LDL	TEMED	N,N,N',N' - tetramethylethylene diamine
PAF	platelet activating factor	TGF- β	transforming growth factor- beta
PAGE	polyacrylamide gel electrophoresis	TIMP-1	tissue inhibitors of metalloproteinase
PAI	plasminogen activator inhibitor	TNF- α	tumor necrosis factor –alpha
PBS	phosphate buffered saline	t-PA	tissue-type plasminogen activator
PCR	polymerase chain reaction	Tris·Cl	trizma hydrochloride
PDGF	platelet derived growth factor	TXA ₂	thromboxane A ₂
PGI ₂	prostacyclin	VCAM-1	vascular adhesion molecule-1
PMSF	phenylmethylsulfonyl fluoride		
PVDF	polyvinylidene difluoride		
RNA	ribonucleic acid		
ROS	reactive oxygen species		
RT-PCR	reverse transcription- polymerase chain reaction		
SAPK	stress-activated protein kinase		
SD	sprague-dawley		
SDS	sodium dodecyl sulfate		
SEM	standard error of the mean		