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## LIST OF ABBREVIATIONS

ACE	angiotensin converting enzyme
ACh	acetylcholine
Ang I	Angiotensin I
Ang II	angiotensin II
BH <sub>4</sub>	tetrahydrobiopterin
Ca <sup>2+</sup>	calcium ion
CAT	catalase
°C	degree centigrade, degree celcius
cAMP	cyclic adenosine monophosphate
cGAM	cyclic guanosine monophosphate
COX	Cyclooxygenase
CSA	cross sectional area
CUR	curcumin
ECM	extracellular matrix
EDHFs	endothelium-derived hyperpolarizing factors
EDRFs	endothelium-derived relaxing factors
EDTA	ethylenediaminetetraacetic acid
eNOS	endothelial nitric oxide synthase
ET-1	endothelin-1
g	gram
G-6-PD	glucose-6- phosphate dehydrogenase
GPO	The Government Pharmaceutical Organization of Thailand
h	hour
HBF	hindlimb blood flow
HLW	hindlimb weight
HO•	hydroxyl radical
H <sub>2</sub> O <sub>2</sub>	hydrogen peroxide
HR	heart rate
HVR	hindlimb vascular resistance
i.p.	intraperitoneal

**LIST OF ABBREVIATIONS (Cont.)**

IP <sub>3</sub>	1,4,5-inositol triphosphate
K <sub>Ca</sub>	K <sup>+</sup> channels
kg	kilogram
2K-1C	2kidney – 1clip
L-NAME	N <sup>ω</sup> –nitro-L-arginine methyl ester
MAP	mean arterial pressure
MDA	malondialdehyde
mg	milligram
ml	milliliter
mM	millimolar
MMP-2	matrix metalloproteinase-2
MMP-9	matrix metalloproteinase-9
NADPH	nicotinamide adenine dinucleotide phosphate
NO	nitric oxide
NOS	nitric oxide synthase
O <sub>2</sub> <sup>•-</sup>	superoxide anion
ONOO <sup>-</sup>	peroxynitrite
PGI <sub>2</sub>	prostacyclin
PG	polyethylene glycol
PE	phenylephrine
PKC	protein kinase- C
RBP	rice bran peptide
ROS	reactive oxygen species
SBP	systolic blood pressure
SHR	spontaneous hypertensive rat
SMA	smooth muscle actin
SNP	sodium nitropusside
SOD	superoxide dismutase
μg	microgram
μM	micromolar
VSMC	vascular smooth muscle cell