

**- LIST OF ABBREVIATIONS -**

AB	Alamar Blue
ABP	arterial blood pressure
ANOVA	analysis of variance
AP	activating protein
API	atmospheric pressure ionisation
ARD	ankyrin repeat domain
ASK	apoptosis signal-regulating kinase
AST	aspartate aminotransferase
BAFF	B-cell activating factor
BSO	buthionine sulfoximine
CD	cluster of differentiation
C/EBP	CCAAT-enhancer box binding protein
CK	creatine phosphokinase
COX	cyclooxygenase
CREB	cyclic AMP-responsive element binding protein
CRI	constant / continuous rate infusion
CYP <sub>450</sub>	cytochrome P450
Da	dalton
DAP	diastolic arterial pressure
DIC	disseminated intravascular coagulation
EEG	electroencephalographic
EGF	epidermal growth factor
EMSA	electrophoretic mobility shift assay
eNOS	endothelial NOS
ERK	extracellular signal-regulated kinase
FACS	flow cytometric analysis
FAD	flavin adenine dinucleotide
FMLP	N-formyl-methionyl-leucyl-phenylalanine
FMN	flavin mononucleotide
GABA	gamma-aminobutyric acid
GC-MS	gas-liquid chromatography-mass spectrometry
GSH	glutathione
H <sub>4</sub> B	tetrahydrobiopterin
HNK	hydroxynorketamine
HPLC	high-performance liquid chromatography
HR	heart rate
IFN	interferon
IκB	inhibitor of kappa B
IKK	IκB kinase
IKKAP	IKK associated protein

IL	interleukin
IL-1ra	IL-1 receptor antagonist
iNOS	inducible nitric oxide synthase
IRAK	interleukin-1 receptor-associated protein kinase
IRF	interferon-regulatory factor
JAK	Janus activated kinase
JNK	c-Jun N-terminal kinase
kDa	kilo dalton
KDO	3-deoxy-D-manno-oct-2-ulosonic acid
LBP	lipopolysaccharide binding protein
LC-MS/MS	liquid chromatography-tandem mass spectrometry
LDH	lactate dehydrogenase
LPS	lipopolysaccharide
LRR	leucine-rich repeat
MAC	minimal alveolar concentration
MAIL	molecule possessing ankyrin-repeats induced by LPS
MAP	mean arterial pressure
MAPK	mitogen-activated protein kinase
MAPKK	mitogen-activated protein kinase kinase
MAPKKK	mitogen-activated protein kinase kinase kinase
MD	myeloid differentiation protein
MEK	MAPK-ERK kinase
MEKK	MAPK-ERK kinase kinase
MPO	myeloperoxidase
mtNOS	mitochondrial NOS
MyD88	myeloid differentiation factor 88
NADPH	nicotinamide adenine dinucleotide phosphatase
NEFA	non-esterified fatty acid
NEMO	NF- $\kappa$ B essential modulator
NF-IL-6	nuclear factor for IL-6 expression
NF- $\kappa$ B	nuclear factor-kappa B
NLS	nuclear localisation sequence
NMDA	N-methyl-D-aspartate
nNOS	neuronal NOS
NO	nitric oxide
NSAID	non-steroidal anti-inflammatory drug
p38	mitogen-activated protein kinase p38
PaCO <sub>2</sub>	arterial carbon dioxide tension
PAF	platelet-activating factor
PAMP	pathogen associated molecular pattern

PaO <sub>2</sub>	arterial oxygen tension
PDGF	platelet-derived growth factor
pERK	phosphorylated ERK
PG	prostaglandin
pJNK	phosphorylated JNK
PMA	phorbol 12-myristate 13-acetate
PMN	polymorphonuclear leukocytes
p-p38	phosphorylated p38
PRR	pattern recognition receptor
RHD	Rel homology domain
ROS	reactive oxygen species
RR	respiration rate
SAP	systolic arterial pressure
sCD	soluble CD
SD	standard deviation
SI	single injection
SOD	superoxide dismutase
STAT	signal transducer and activator of transcription
sTNFR	soluble TNF receptor
TAB	TAK binding protein
TAK	transforming growth factor- $\beta$ -activated kinase
TANK	TRAF-family-member-associated NF- $\kappa$ B activator
TBK	TANK-binding kinase
TIR	Toll / interleukin-1 receptor
TIRAP	TIR domain-containing adaptor protein
TIVA	total intravenous anaesthesia
TLR	Toll-like receptor
TNF	tumour necrosis factor
TNFR	TNF receptor
TRAF	tumour necrosis factor receptor-associated factor
TRAM	TRIF-related adaptor molecule
TRIF	TIR-domain-containing adaptor protein inducing IFN- $\beta$
TX	thromboxane
XO	xanthine oxidase