

CONTENTS

	Page
Acknowledgement	c
Abstract in Thai	d
Abstract in English	f
List of Tables	k
List of Figures	l
List of Abbreviations	n
List of Symbols	q
Chapter 1 Introduction	1
1.1 Historical background	1
1.2 Literature reviews	4
1.2.1 Process of inflammation	4
1.2.2 Mediators of inflammation	7
1.2.3 Diseases-associated with chronic inflammation	10
1.2.4 Molecular signaling pathways of inflammation in macrophages	15
1.2.5 Inhibition of inflammation from natural product	21
1.2.6 Biological activities of crebanine	23
1.3 Objectives	24
Chapter 2 Material and method	25
2.1 Chemicals and materials	25
2.2 Cell culture	25
2.3 Sample preparation	25
2.4 Measurement of cell viability	26

2.5 The effect of the crebanine on the LPS-induced inflammation process	28
2.5.1 Determination of pro-inflammatory cytokine (IL-6 and TNF- α) productions	28
2.5.2 Measurement of NO production	29
2.5.3 Measurement of PGE ₂ levels	30
2.6 Protein determination	31
2.7 Treatment condition of crebanine in preparing of whole cells lysates, cytoplasmic and nuclear fraction for Western blot analysis	32
2.8 Western blot analysis	33
2.9 Effect of MAPKs and PI3-K/Akt inhibitors on LPS-induced RAW 264.7 cells	35
2.9.1 Effect of MAPKs and PI3-K/Akt inhibitors on LPS-induced AP-1 and NF- κ B phosphorylation.	35
2.9.2 Effect of MAPKs and PI3-K/Akt inhibitors on LPS-induced inflammatory mediators production.	35
2.10 Statistical analysis	36
Chapter 3 Results	
3.1 Effect of crebanine on RAW 264.7 macrophages cytotoxicity	37
3.2 Effect of crebanine on pro-inflammatory cytokines IL-6 and TNF- α in LPS-stimulated RAW 264.7 macrophages.	39
3.3 Effect of crebanine on NO production and iNOS expression in LPS-induced RAW 264.7 macrophages.	42
3.4 Effect of crebanine on PGE ₂ production and COX-2 expression in LPS-stimulated RAW 264.7 macrophages.	45
3.5 Effect of crebanine on LPS-stimulated the activation of MAPKs and PI3-K/Akt signaling pathway	48
3.6 Effect of crebanine on the activation of NF- κ B in LPS-stimulated RAW 264.7 macrophages	53
3.7 Effect of crebanine on AP-1 activation in LPS-induced RAW 264.7 macrophages	58

Chapter 4 Discussion and conclusion	62
References	66
Appendix	76
Appendix A	76
Appendix B	79
Appendix C	80
Curriculum Vitae	86



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LIST OF TABLES

	Page
Tables 1 Effect of crebanine on RAW 264.7 cells cytotoxicity for 24 and 48 h	40



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LIST OF FIGURES

	Page
Figure 1 The process of leukocyte movement to the inflammatory sites	6
Figure 2 The inflammatory cascade triggered by IL-1 and TNF- α	7
Figure 3 The L-arginine-nitric oxide pathway	8
Figure 4 Biosynthesis of prostaglandins	9
Figure 5 The outline of inflammatory pathways involved in atherosclerosis	11
Figure 6 Cancer-related inflammation	13
Figure 7 The interaction of immune cells and inflammatory mediators play a role in rheumatoid arthritis	14
Figure 8 NF- κ B signaling pathway	17
Figure 9 Structure of lipopolysaccharide	18
Figure 10 Overview of LPS/TLR4 signaling pathways	19
Figure 11 The involvement of TLR-mediated MyD88-dependent pathway	20
Figure 12 Effects of anti-inflammatory plant natural products on activation and suppression of multiple cell signaling pathways	22
Figure 13 The chemical structure of crebanine	23
Figure 14 The principle of MTT assay in cells mitochondria	26
Figure 15 Principle of nitrite measuring via the Griess reaction	30
Figure 16 Effect of crebanine on RAW 264.7 cells cytotoxicity at 24 and 48 h	41
Figure 17 Effect of crebanine on IL-6 production in LPS-stimulated RAW 264.7 macrophages	43
Figure 18 Effect of crebanine on TNF- α production in LPS-stimulated RAW 264.7 macrophages	44
Figure 19 Effect of crebanine on NO production in LPS-stimulated RAW 264.7 macrophages	46
Figure 20 Effect of crebanine on iNOS expression in LPS-stimulated RAW 264.7 macrophages	47

Figure 21 Effect of crebanine on PGE ₂ production in LPS-stimulated RAW 264.7 macrophages	49
Figure 22 Effect of crebanine on COX-2 expression in LPS-stimulated RAW 264.7 macrophages	50
Figure 23 Effect of crebanine on LPS-stimulated activation of MAPKs signaling pathway in activated macrophages.	52
Figure 24 Effect of crebanine on LPS-stimulated the activation of PI3-K/Akt signaling pathway	53
Figure 25 Effect of specific inhibitors on the regulation of MAPKs and PI3-K/Akt signaling pathway in LPS-stimulated IL-6 production	54
Figure 26 Effect of specific inhibitors on the regulation of MAPKs and PI3-K/Akt signaling pathway in LPS-stimulated NO production	55
Figure 27 Effect of crebanine on I κ B- α degradation in LPS-stimulated RAW 264.7 macrophages	57
Figure 28 Effect of crebanine on NF- κ B translocation in LPS-stimulated RAW 264.7 macrophages	58
Figure 29 Effect of crebanine on p65 phosphorylation in LPS-stimulated RAW 264.7 macrophages	59
Figure 30 The association of MAPKs and PI3-K/Akt signaling pathway in the p65 phosphorylation	60
Figure 31 Effect of crebanine on the AP-1 translocation in LPS-induced RAW 264.7 macrophages	62
Figure 32 Effect of crebanine on c-Jun phosphorylation at serine63 residue in LPS-stimulated RAW 264.7 macrophages	63
Figure 33 The influence of MAPKs and PI3-K/Akt signaling pathway in the phosphorylation of c-Jun	64

LIST OF ABBREVIATIONS

%	percent
°C	degree celsius
µg	microgram
µl	microliter
µM	micromolar
γIFN	gamma interferon
W/V	weight by volume
APS	ammonium persulfate
BSA	bovine serum albumin
CO ₂	carbon dioxide
COX-2	cyclooxygenase-2
DMEM	dulbecco's modified eagle's medium
DMSO	dimethyl sulfoxide
DTT	dithiothreitol
DI	deionized water
ECL	enhance chemiluminescence
EDTA	ethylenediaminetetraacetic acid
EGTA	ethyleneglycoltetraacetic acid
ELISA	enzyme-linked immunosorbent assay
eNOS	endothelial nitric oxide synthase
FBS	fetal bovine serum
g	gram
h	hour
HEPES	N-2-hydroxyethylpiperazine-N-2-ethanesulfonic acid
HIF1α	hypoxia-inducible factor 1 alpha
HRP	horseradish peroxidase
IL-6	interleukin-6
iNOS	inducible nitric oxide synthase

IKK	I κ B kinase
IRF-3	interferon regulatory factor-3
IRAKs	IL-1 receptor-associated kinase
ISRE	interferon sensitive response element
KCL	potassium chloride
l	liter
LPS	lipopolysaccharide
MAPKs	mitogen-activated protein kinases
MTT	3-(4,5 dimethylthiazole-2yl)-2,5 diphenyltetrazolium bromide
mg	milligram
min	minute
ml	milliliter
nm	nanometer
mM	milimolar
M	molar
NaF	sodium fluoride
NF- κ B	nuclear factor kappa B
Na ₃ VO ₄	sodium orthovanadate
NaCl	sodium chloride
NaHCO ₃	sodium bicarbonate
Na ₂ HPO ₄	disodium hydrogen phosphate
KH ₂ PO ₄	potassium dihydrogen phosphate
NO	nitric oxide
NOS	nitric oxide synthase
nNOS	neuronal nitric oxide synthase
PARP	poly (ADP-ribose) polymerase
PBS	phosphate buffered saline
PBST buffer	PBS containing 0.5% (v/v) Tween-20
PGE ₂	prostaglandin E ₂
PI3-K	phosphatidylinositol 3'-kinase

PMSF	phenylmethanesulfonylfluoride
RIPA buffer	radioimmunoprecipitation assay buffer
RNI	reactive nitrogen intermediates
rpm	revolutions per minute
S.D.	standard deviation
SDS	sodium dodecyl sulfate
SDS-PAGE	sodium dodecyl sulfate polyacrylamide gel electrophoresis
STAT3	signal transducer and activator of transcription 3
TAK1	transforming growth factor- β -activated kinase 1
TBK-1	TANK-binding protein
TEMED	tetramethylethylenediamine
TLR4	toll-like receptor 4
TNF- α	tumor necrotic factor-alpha
TNFR	tumor necrosis factor receptor
TRAF6	TNF receptor-associated factor 6
TRIF	TIR domain-containing adaptor inducing interferon- β
TRAM	TRIF-related adaptor molecules

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LIST OF SYMBOLS

α	alpha
β	beta
γ	gamma
μ	micro



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