



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكرو فيلم

بسم الله الرحمن الرحيم



HANAA ALY



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شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلم



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جامعة عين شمس

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Neuroprotective effects of Atorvastatin on Doxorubicin-induced cognitive impairment in rats

***Thesis submitted for the partial fulfillment of Master
degree in pharmaceutical sciences
(Pharmacology & Toxicology Department)***

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List of Abbreviations

CNS	Central nervous system
CICI	Chemotherapy-induced cognitive impairment
DOX	Doxorubicin
ROS	Reactive oxygen species
METC	Mitochondrial electron transport chain
BBB	Blood brain barrier
TNF-α	Tumor necrosis factor alpha
HMG Co-A reductase	3-Hydroxy 3-methylglutaryl co-enzyme A reductase
AD	Alzheimer's disease
PD	Parkinson's disease
MS	Multiple sclerosis
ATV	Atorvastatin
HO-1	Heme oxygenase-1
HO-2	Heme oxygenase-2
CO	Carbon monoxide
NADPH	Nicotinamide Adenine Dinucleotide Phosphate
BVR	Biliverdin reductase
RNS	Reactive nitrogen species
ER	Endoplasmic reticulum
UPR	Unfolded protein response

LIST OF ABBREVIATIONS

ERAD	ER-associated degradation
PERK	Double-stranded RNA-activated protein kinase (PKR)-like ER kinase
ATF6	Activating transcription factor 6
IRE1	Inositol-requiring enzyme
XBP1	X-box protein 1
GRP78	Glucose-regulated protein78
CHOP	C/EBP homologous protein
Bax	Bcl-2 associated X protei
BAK	Bcl-2 homologous antagonist/killer
Bcl-2	B-cell lymphoma 2
Bcl-xl	B-cell lymphoma-extra large
JNK	c-JUN NH2-terminal kinase
GSH	Reduced glutathione
i.p.	Intra-peritoneal
P.O.	peroral
MWM	Morris water maze
MDA	Malondialdehyde
DNA	Deoxyribonucleic acid
RNA	Ribonucleic acid
COX-2	Cyclooxygenase- 2
PA	Passive avoidance
Apo-A1	Apolipoprotein A1

LIST OF ABBREVIATIONS

TTP	Tristetraprolin
NF- κB	Nuclear factor kappa B
i-NOS	Inducible nitric oxide synthase
IL	Interleukin
PTP	permeability transition pore
TUNEL	terminal deoxynucleotidyl transferase-mediated dUTP nick end labeling
Ca²⁺	Calcium ions
TCA	Trichloroacetic acid

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