

ABBREVIATIONS

aP ₂	: adipocyte protein 2
BHT	: Butylated 4-hydroxytoluene
BHA	: Butylated 4-hydroxyanisole
BMI	: Body mass index
BPH	: Benign Prostatic Hyperplasia
¹³ C	: Carbon - 13
COPD	: Chronic obstructive pulmonary disease
COSY	: Correlation Spectroscopy
COX	: Cyclooxygenase
COX-2	: Cyclo-oxygenase-2
CRP	: C-reactive protein
DAS	: Diallyl sulfides
DEPT	: Distortionless Enhancement by Polarisation Transfer
DMEM	: Dulbecco's Modified Eagles Medium
DMSO	: Dimethyl sulphoxide
DNA	: Deoxyribo Nucleic Acid
DPPH	: 2,2-Diphenyl-1-picrylhydrazyl
EtOAc	: Ethylacetate
1,2-DT	: 1, 2-Vinyldithiin
EDTA	: Ethylenediaminetetraacetic acid
ESI-TOF-MS	: Electrospray ionization Time-of-flight mass spectrometry
FBS	: Fetal Bovine Serum
FDA	: Food and Drug Administration
FeCl ₃	: Ferric chloride
FRAP	: Ferric Reducing Antioxidant power
FR	: Free radicals
GC	: Gas chromatography
GERD	: Gastroesophageal reflux disease
GPX	: Glutathione peroxidase
GR	: Glutathione reductase
GRX _o	: Glutaredoxin (oxidized)
GRX _r	: Glutaredoxin (reduced)
GSH _r	: Glutathione (reduced)

^1H	: Proton - 1
HCAAs	: Heterocyclic amines
HCl	: Hydrochloric acid
HMBC	: Heteronuclear Multiple Bond Correlation
HOHAHA	: HOmonuclear Hartmann- HAhn
HRMS	: High resolution mass spectroscopy
HSQC	: Hetero single quantum coherence
HSV-1	: Herpes simplex virus type 1
7-HF	: 7- Hydroxy frullanolide
HOD	: Head of the department
HTS	: High-throughput screening
IBMX	: Isobutylmethylxanthine
IC ₅₀	: Half inhibition concentration
iNOS	: Inducible nitric oxide synthase
IL-6	: Inter leukin-6
LC – MS	: Liquid chromatography - mass spectroscopy
LH	: Library herbarium
5-LOX	: 5-Lipoxygenase
LPS	: Lipopolysaccharide
μM	: Micro molar
Mcg	: Microgram.
MeOH	: Methanol
MIC	: Minimum inhibitory concentration
Mito-ETC	: Mitochondrial electron transport chain
mmol	: Milli mole
m.p	: Melting point
NaCN	: Sodium cyanide
NADPH	: Hydrogenated Nicotinamide Adenine Dinucleotide Phosphate
NBT	: Nitro Blue Tetrazolium
NCL	: National Chemical Laboratory
NMR	: Nuclear Magnetic Resonance
NO	: Nitric oxide
NOESY	: Nuclear Overhauser Effect Spectroscopy
NP	: Natural Product

NSAIDs	: Non-steroidal anti-inflammatory drugs
PAF	: Platelet activating factor
PAI-1	: Plasminogen activator inhibitor-1
PBS	: Phosphate buffered saline
PGE2	: Prostaglandin E2
R & D	: Research and development
ROS	: Reactive oxygen species
RRT	: Relative retention time
rt	: Room temperature
SOD	: Superoxide dismutases
SLE	: Systemic Lupus Erythematosus
TCM	: Traditional Chinese Medicines
TLC	: Thin layer chromatography
THF	: Tetra hydro furan
TNF α	: Tumor necrosis factor- α
TPTZ	: 2,4,6-Tripyridyl-s-triazine
TRX _o	: Thioredoxin (oxidized)
TRX _r	: Thioredoxin (reduced)
WHO	: World Health Organization