

Appendix B

List of Abbreviations and Symbols

Abbreviation and Symbol	Term
%	percent
>	more than
<	less than
α	alpha
β	beta
δ	chemical shift (in ppm, for NMR spectra)
μg	microgram
μl	microliter
AIDS	acquired immune deficiency syndrome
ANOVA	analysis of variance
ATCC	American type culture collection
$^{\circ}\text{C}$	degree celcius
C18	covalently-bonded octadecylsilane
CC	column chromatography
CDCl_3	deuteriochloroform
CD_3OH	deuteromethanol
CHCl_3	chloroform
cm	centimeter
cm^2	square meter
CO_2	carbon dioxide

Abbreviation or Symbol	Term
CORL-23	lung adenocarcinoma cell line
<i>C (sample)</i>	concentration of sample
<i>C (spike)</i>	concentration of sample and standard
<i>C (std)</i>	concentration of standard
d	doublet (for NMR spectra)
<i>D. membranacea</i>	<i>Dioscorea membranacea</i>
DMEM	Dulbecco's modified eagle medium
DMSO	dimethylsulfoxide
DNA	deoxyribonucleic acid
DPPH	1, 1-diphenyl-2-picrylhydrazyl
EC ₅₀	concentration causing 50% effective activity
EDTA	ethylenediamine tetraacetic acid
EtOAc	ethylacetate
EtOH	ethanol
FBS	fetal bovine serum
g	gram
¹ H-NMR	proton nuclear magnetic resonance
h	hour
HCl	hydrochloric acid
HF	normal human fibroblasts
HIV	human immuno deficiency virus
HPLC	high performance liquid chromatography
Hz	hertz

Abbreviation or Symbol	Term
IC ₅₀	concentration of extract that caused a 50% growth inhibition comparing with control
ICH	International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use
IFNs	interferons
ILs	interleukins
<i>J</i>	nuclear spin-spin coupling constant (in Hz)
kg	kilogram
l	liter
LD ₅₀	dose of extract that caused a 50% death comparing with control
LDH	lactate dehydrogenase
LOD	limit of detection
LOQ	limit of quantitation
LPS	lipopolysaccharide
LS-174T	colon cancer cell line
m	meter
M	molar
MCF-7	human breast cancer cells
MeOH	methanol
mg	milligram
MHz	megahertz

Abbreviation or Symbol	Term
min	minute
ml	milliliter
mm	millimeter
mM	milli molar
MTT	3-(4, 5-dimethylthiazol-2-yl)-2, 5-diphenyltetrazolium bromide
N	normal
NaCl	sodium chloride
NADH	nicotinamide adenine dinucleotide
NCEs	new chemical entities
nm	nanometer
NMR	nuclear magnetic resonance
NO	nitric oxide
OD	optical density
PBS	phosphate buffer saline
pH	power of hydrogen
PMS	phenazine methosulphate
r^2	correlation coefficient
R.S.D.	relative standard deviation
RAW 264.7	mast cell line
RH	relative humidity
rpm	round per minute
RT	retention time
SD	standard deviation
SDA	State Drug Administration

Abbreviation or Symbol	Term
SEC	size-exclusion liquid chromatography
SEM	standard error of mean
<i>spp</i>	species
SPSS	Statistical Package for the Social Sciences
SRB	sulforhodamine B
std	standard
SVK	keratinocyte normal cell line
TCA	trichloroacetic acid
TCM	traditional Chinese medicine
TLC	thin layer chromatography
TNF- α	tumor necrosis factor- α
UV	ultraviolet
vis	visible
VLC	vacuum liquid chromatography
w/w	weight by weight
WHO	World Health Organization
XTT	2, 3-bis(2-methoxy- 4-nitro-5-sulphophenyl)-2H-tetrazolium-5-carboxanilide sodium salt