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#### xxvi

#### **ABBREVIATION**

<sup>13</sup>C NMR Carbon thirteen Nuclear Magnetic Resonance

CDCl<sub>3</sub> Deuterated chloroform

CHCl<sub>3</sub> Chloroform

CNS Central nervous system

Co-115 Colon carcinoma cell line: Co-115

COLO-205 Colon carcinoma cell line: COLO-205

COSY Correlated Spectroscopy

d doublet

dd double doublet

DMSO Dimethylsulfoxide

DPPH 1,1-Diphenyl-2-picryhydracyl

EBV-EA Epstein-Barr virus early antigen

EI-MS Electron Impact Mass Spectrometry

FBS Fetal bovine serum

FCS Fetal calf serum

GI<sub>50</sub> Concentration which inhibits cell growth by 50%

HBeAg Hepatitis B antigen

HeLa Cervical cancer cell line: HeLa

HEPA Hepatoma cell line: HEPA

HepG2 Human hepatoma cell line: HepG2

Hep-2 Larynx epithelium carcinoma cell line: Hep-2

<sup>1</sup>H NMR Proton Nuclear Magnetic Resonance

#### xxvii

HIV Human Immunodeficiency Virus

HL-60 Human leukemia cell: HL-60

HMBC Heteronuclear Multiple Bond Correlation

HRMS High Resolution Mass Spectrometry

HSQC Heteronuclear Single Quantum Coherence

Hz Hertz

IC50 Concentration giving 50% inhibition

J Coupling constant in Hz

KB Human oral epidermoid carcinoma cell line: KB

LL/2 Mouse Lewis lung carcinoma cell line

m multiplet

m/z mass per charge

MCF-7 Human breast carcinoma cell line: MCF-7

MeOH Methanol

MHz Mega hertz

MTT 3-(4,5-Dimethylthiazole-2-yl)-2,5-dimethyltetrazolium bromide

NBT Nitroblue tetrazolium

NCI National Cancer Institute

NCI-H460 Non-small cell lung cancer cell line: NCI-H460

NGF Nerve growth factor

nm Nanometer

NMR Nuclear Magnetic Resonance

NOESY Nuclear Overhauser and Exchange Spectroscopy

OMe Methoxy

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PAF Platelet-activating factor

PHA Phytohemagglutinin

P388 Mouse lymphoid neoplasm cell line: P388

ppm parts per million

s singlet

SF-268 CNS cancer cell line: SF-268

sp. Species (singular)

spp. Species (plural)

SRB Sulphorodamine B

T triplet

TCA Trichloroacetic acid

TPA 12-o-tetradeconaylphorbal-13-acetate

TK-10 Renal cancer cell line: TK-10

TLC Thin layer chromatography

Tris (hydroxymethyl)aminomethane

UACC-62 Melanoma cell line: UACC-62

δ Chemical shift value in ppm

Wavelength in nanometer

°C Celcius degree

μg Microgram

μl Microliter

Wehil 64 Mouse fibrosarcoma: Wehil 64