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**Abbreviations**

ADME	Absorption, distribution, metabolism, elimination
ANOVA	Analysis of variance
ATCC	American Type Culture Collection
A2780-S	Sensitive cells of A2780
A2780-CR	Cisplatin resistant cells of A2780
A2780-PR	Paclitaxel resistant cells of A2780
Bcl-2	B-cell lymphoma-2
Bcl-XL	B-cell lymphoma Xtra-Large
b.w.	body weight
<sup>0</sup> C	Degree centigrade
CDCl <sub>3</sub>	Deuterated chloroform
CFU	Colony forming units
CIP	Ciprofloxacin
DCM	Dichloromethane
DMF	N,N-Dimethyl formamide
DMSO	Dimethyl sulfoxide
DMEM	Dulbecco's modified eagle medium
DNA	Deoxyribonucleic acid
ECM	Extracellular Matrix
EGFR-TK	Epidermal Growth Factor Receptor-Tyrosine kinase
ELISA	Enzyme-linked immunosorbent assay
ER	Estrogen receptors
FACS	Fluorescence assisted cell cytometry
FDA	Food and Drug Administration
FTIR	Fourier transform infrared
GI <sub>50</sub>	Growth Inhibitory Concentration
G6PD	Glucose-6-phosphate dehydrogenase
GlcN-6-P	Glucosamine-6-phosphate
GlcN-6-PS	Glucosamine-6-phosphate synthase
h	hours
HB	Hydrogen bond
HPV	Human papilloma virus
IC <sub>50</sub>	Half maximal Inhibitory Concentration
IGFR	Insulin growth factor receptor

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MDR	Multi Drug Resistant
MHB	Mueller Hington Broth
MIC	Minimum Inhibitory Concentration
$\mu\text{M}$	micromolar
M. wt	Molecular weight
M.P.	Melting point
mM	milli mole
MRSA	<i>Methicillin-Resistant Staphylococcus aureus</i>
MTT	3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide
NADPH	Reduced nicotinamide-adenine-dinucleotide phosphate
NCI	National cancer Institute
NMR	Nuclear magnetic resonance
PBS	Phosphate buffered saline
PDB	Protein Data Bank
PI	Propidium Iodide
ppm	parts per million
$R_f$	Retention factor
RNA	Ribonucleic Acid
ROS	Reactive Oxygen Species
RT	Room temperature
SAR	Structural Activity Relationship
SEM	Standard error of mean
TLC	Thin layer chromatography
TMS	Tetramethylsilane
TNF $\alpha$	Tumor Necrosis Factor alpha
UDP	GlcNAc- uridine 5'-diphospho-N-acetyl-D-glucosamine
UV-VIS	Ultraviolet-visible
VRE	Vancomycin-resistant <i>Enterococcus</i>
WHO	World Health Organization
br.	Broad
s	singlet
d	doublet
t	triplet
m	multiplet