LIST OF ABBREVIATIONS

10-OXO	10-oxo-7-epidocetaxel
AA	Ascorbic acid
Ab	Antibody
Akt/PKB	Protein kinase B
AL	Anionic liposomes
APCI	Atmospheric-pressure chemical ionization
BCA	Bicinchoninic acid
BPLs/BLs	Blank PEGylated liposomes
BSA	Bovine serum albumin
CA	Citric acid
CA-AL	Citric acid containing anionic liposomes
Cdc-42	Cell division control protein 42
CHOL	Cholesterol
CLs	Conventional liposomes
DABCO	1,4-diazabicyclo[2.2.2]octane
DAPI	4',6'-diamino-2-phenylindole
DMEM	Dulbecco's modified eagle media
DMSO	Dimethyl sulfoxide
DNA	Deoxyribonucleic acid
DPPC	Dipalmitoyl phosphatidyl choline
DPPG	Dipalmitoyl phosphatidyl glycerol
DSC	Differential scanning calorimetry
DSPC	Distearoyl phosphatidyl choline
DSPE	Distearoyl phosphatidyl ethanolamine
DTNB	5,5'-Dithio-bis-(2-nitrobenzoic acid)
DTT	Dithiothreitol
DTX	Docetaxel
DXR	Doxorubicin
EB/AO	Ethidium bromide/Acridine orange
ED	Effective dose
EDTA	Ethylene diamine tetra acetic acid
EDTX	Epidocetaxel
EGFR	Epidermal growth factor receptor
EGTA	Ethylene glycol tetraacetic acid
ELISA	Enzyme linked immunosorbent assay
EPI	Epidocetaxel
EPR	Enhanced permeation and retention
ERK	Extracellular signal-regulated kinases
FACS	Fluorescence assisted cell sorting
FDA	Food and drug administration
FITC	Fluorescein isothiocyanate
FTIR	Fourier transform infrared spectrophotometer
GTP	Guanosine triphosphate
hCYP1B1	Recombinant human cytochrome P450 1B1
H-E stain	Hematoxylin and eosin stain
HER2	Human epidermal growth factor receptor 2
HRP	Horseradish peroxidase

HSPC	Hydrogenated soya phosphatidyl choline
IC	Inhibitory concentration
ICH	International Conference on Harmonization
IgG	Immunoglobulin
ILs	Immunoliposomes
IMDM	Iscove's modified dulbecco's media
kDa	Kilo Dalton
LUVs	Large unilamellar vesicles
MA	Maleic acid
mAb	Monoclonal antibody
MEA	2-mercaptoethylamine
MFI	Mean fluorescence intensity
MHC	Major histocompatibility complex
MLVs	Multilamellar vesicles
MMP	Membrane metalloproteinase
MPS	Mean particle size
MS	Mass spectroscopy
MT1-MMP	Membrane type -1 matrix metalloproteinase
MTD	Maximum tolerance dose
MTT	(3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide
MWCO	Molecular weight cut off
NRPs	Neuropilins
PAGE	Polyacrylamide gel electrophoresis
P_B	Protein binding
PBS	Phosphate buffer saline
PDC	Percentage drug content
PDI	Polydispersity index
PEG	Polyethylene glycol
PEO	Polyethylene oxide
PFA	Paraformaldehyde
PI	Propidium iodide
PI3K	Phosphoinositide 3-kinase
PILs	PEGylated immunoliposomes
PKC	Protein kinase C
PLs	PEGylated liposomes
PVDF	Polyvinylidene fluoride
RES	Reticuloendothelial system
RGD	L-Arginyl-Glycyl-L-Aspartic acid
RIPA buffer	Radioimmunoprecipitation assay buffer
RMFI	Relative mean fluorescence intensity
RNAs	Ribonuclease
RP-HPLC	Reverse phase-High performance liquid chromatography
RPM	Rotation per minute
RPMI	Roswell park memorial institute medium
RRT	Relative retention time
RT	Retention time
SD	Standard deviation
SDS	Sodium dodecyl sulfate
SEMA 3A	Class 3 semaphorins
TA	Tartaric acid
TCEP	Tris(2-carboxyethyl)phosphine

TEM	Transmission electron microscope
Tg/Tc/Tm	Glass transition temperature
TNB	2-nitro-5-thiobenzoic acid
TXT	Taxotere
UC	Untreated control
VCAM-1	Vascular cell adhesion molecule-1
VEGF	Vascular endothelial growth factor
VEGFR	Vascular endothelial growth factor receptor
WHO	World health organization