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LIST OF ABBREVIATIONS

Abbreviation	Name
5-FU	5-fluorouracil
A549	human lung adenocarcinoma epithelial cell line
AIDS	acquired immune deficiency syndrome
B16-F10	mouse melanoma cell line
Bcap37	human breast cancer cell line
BGC823	human gastric cancer cell line
CA	carbonic anhydrases
CaCo-2	human colon carcinoma cell line
CEM	human leukemic T-cell line
CH₂THF	5,10-methylene tetrahydrofolate
CRTh2	chemoattractant receptor-homologous molecule expressed on T-helper type 2 cells
DABOs	dihydroalkoxybenzyloxypyrimidines
DHFR	dihydrofolate reductase
dNTP	deoxynucleotide triphosphate
DPPH	1,1-diphenyl-2-picrylhydrazyl
DR5	death receptor 5
dTTP	deoxythymidine triphosphate
dUMP	2'-deoxyuridine-5'-monophosphate
dUTP	deoxyuridine triphosphate
EGFR	epidermal growth factor receptor
EIMS	Electron impact mass spectra
ESI	Electrospray ionization

FabK	Enoyl-acyl carrier protein reductase
FBS	fetal bovine serum
FdUMP	5-fluoro-2`-deoxyuridine-5`-monophosphate
HBV	hepatitis B virus
HCT116	human colon carcinoma cell line
HCV	hepatitis C virus
HDAC	histone deacetylase
HEPES	4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid buffer
HepG2	human hepatocellular carcinoma cell line
HER-2	human epidermal growth factor receptor-2
HIV	human immunodeficiency virus
HL-60	human leukemic myeloblast cell line
HRMS	high resolution mass spectra
Hs683	human glioblastoma cell line
HTLV	human T-lymphotropic virus
IC₅₀	median inhibitory concentrations
IN	integrase
<i>ip</i> MES	<i>intraperitoneal</i> maximal electroshock induced seizure model
K562	human acute myelocytic leukemia cell line
LC₅₀	median lethal concentrations
MCF-7	human breast adenocarcinoma cell line
MDA-MB-231	human breast adenocarcinoma
MIC	Minimal inhibitory concentration
MOE	molecular operating environment software
MT-4	human leukemic T-cell line

MTT	3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyl tetrazolium bromide
NCI-H460	human lung carcinoma cell line
NNRTI	non-nucleoside reverse transcriptase enzyme inhibitors
NS5B	nonstructural protein 5B
P236L	a reverse transcriptase mutation causing resistance to the NNRTI delavirdine
PBMCs	peripheral blood mononuclear cells
PBS	phosphate buffered saline
PC3	human prostatic carcinoma cell line
PDB	protein data bank
PETT	phenethylthiazolylthiourea
PNB	proportion not biting
ppm	parts per million
RMSD	root mean square deviation
ROS	reactive oxygen species
RT	reverse transcriptase
RTX	raltitrexed
SAHA	suberoylanilide hydroxamic acid
SAR	structure-activity relationship
sc PTZ	<i>subcutaneous</i> pentylenetetrazole induced seizure model
S-DABOs	sulfanyl analogues of dihydroalkyloxybenzyloxy-pyrimidines
SEM	standard error of the mean
SI	selectivity index
SKOV3	human ovarian carcinoma cell line
T98G	human glioblastoma cell line

TB	tuberculosis
THP-1	human acute monocytic leukemia cell line
TIBO	tetrahydroimidazobenzodiazepinone
TMS	tetramethylsilane
TP	thymidine phosphorylase
TPSA	topological polar surface area
TS	thymidylate synthetase
U373	human glioblastoma cell line
U937	human leukemic monoblast cell line

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