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TABLE OF CONTENTS

TABLE OF CONTENTS	i
LIST OF ABBREVIATIONS	ii
LIST OF FIGURES	vi
LIST OF TABLES	vii
I. INTRODUCTION.....	1
1.1. Biological and medicinal significance of thiourea derivatives	1
1.1.1. Anticancer thiourea derivatives.....	1
1.1.2. Antiviral thiourea derivatives.....	5
1.1.3. Antioxidant thiourea derivatives	12
1.1.4. Antimicrobial thiourea derivatives.....	14
1.1.5. Antiparasitic thiourea derivatives.....	17
1.1.6. Anti-inflammatory thiourea derivatives	18
1.1.7. CNS activity of thiourea derivatives	19
1.1.8. Miscellaneous activities of thiourea derivatives	20
II. RESEARCH OBJECTIVES	21
III. DISCUSSION	24
Scheme 1	25
Scheme 2	34
Scheme 3	51
Scheme 4	60
IV. EXPERIMENTAL	69
Scheme 1	70
Scheme 2	74
Scheme 3	81
Scheme 4	87
I. BIOLOGICAL SCREENING.....	91
1-Cytotoxicity screening	91
2-Anticancer screening.....	94
3-Antioxidant screening	104
4-Antimicrobial screening.....	107
V. MOLECULAR MODELING.....	112
1- <i>In silico</i> physico-chemical properties and toxicity prediction	112
2-Anticancer docking study	119
REFERENCES.....	134
ENGLISH SUMMARY	151
ARABIC SUMMARY	

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 dihydroalkoxybenzyloxy-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

LIST OF FIGURES

Figure 1: $^1\text{H-NMR}$ spectrum of compound 4.....	28
Figure 2: $^{13}\text{C-NMR}$ spectrum of compound 4.....	29
Figure 3: $^1\text{H-NMR}$ spectrum of compound 5b.....	31
Figure 4: $^{13}\text{C-NMR}$ spectrum of compound 5b.....	32
Figure 5: HRMS of compound 5b.....	33
Figure 6: $^1\text{H-NMR}$ spectrum of compound 6a.....	36
Figure 7: $^{13}\text{C-NMR}$ spectrum of compound 6a.....	37
Figure 8: Postulated mechanism of compounds 7a-c formation.....	40
Figure 9: $^1\text{H-NMR}$ spectrum of compound 7b.....	41
Figure 10: $^{13}\text{C-NMR}$ spectrum of compound 7a.....	42
Figure 11: EIMS of compound 7a.....	43
Figure 12: EIMS of compound 7b.....	43
Figure 13: $^1\text{H-NMR}$ spectrum of compound 8c.....	45
Figure 14: $^1\text{H-NMR}$ spectrum of compound 10a.....	48
Figure 15: $^{13}\text{C-NMR}$ spectrum of compound 10b.....	49
Figure 16: $^1\text{H-NMR}$ spectrum of compound 12a.....	53
Figure 17: $^{13}\text{C-NMR}$ spectrum of compound 12a.....	54
Figure 18: $^1\text{H-NMR}$ spectrum of compound 13a.....	56
Figure 19: $^{13}\text{C-NMR}$ spectrum of compound 13a.....	57
Figure 20: $^{13}\text{C-NMR}$ spectrum of compound 14.....	59
Figure 21: $^1\text{H-NMR}$ spectrum of compound 16.....	62
Figure 22: $^{13}\text{C-NMR}$ spectrum of compound 16.....	63
Figure 23: $^1\text{H-NMR}$ spectrum of compound 17.....	65
Figure 24: $^{13}\text{C-NMR}$ spectrum of compound 19.....	68
Figure 25: Distribution of logP values of commercial drugs.....	112
Figure 26: Distribution of logS values of commercial drugs.....	112
Figure 27: Distribution of molecular weight values of commercial drugs.....	113
Figure 28: Distribution of drug likeness values of commercial drugs and non-drug like chemicals.....	113
Figure 29: mechanism of action of 5-FU.....	119
Figure 30: Mode of binding of raltitrexed inside TS active site.....	122
Figure 31: Mode of binding of 6a inside TS active site.....	123
Figure 32: Mode of binding of 6b inside TS active site.....	124
Figure 33: Mode of binding of 6c inside TS active site.....	125
Figure 34: Mode of binding of 7b inside TS active site.....	126
Figure 35: Mode of binding of 7c inside TS active site.....	127
Figure 36: Mode of binding of 8a inside TS active site.....	128
Figure 37: Mode of binding of 10b inside TS active site.....	129
Figure 38: Mode of binding of 13b inside TS active site.....	130
Figure 39: Mode of binding of 13d inside TS active site.....	131
Figure 40: Mode of binding of 13f inside TS active site.....	132

LIST OF TABLES

Table 1: Physical and microanalytical data of compounds 5a,b	72
Table 2: Physical and microanalytical data of compounds 6a-c	74
Table 3: Physical and microanalytical data of compounds 7a-c	76
Table 4: Physical and microanalytical data of compounds 10a,b	79
Table 5: Physical and microanalytical data of compounds 12a,b	81
Table 6: Physical and microanalytical data of compounds 13a-f.....	83
Table 7: Results of <i>in vitro</i> cytotoxicity assay	92
Table 8: Anticancer activities (IC ₅₀ in µg/ml) of the tested compounds on some human cancer cell lines	96
Table 9: SI values of the tested compounds	101
Table 10: Results of <i>in vitro</i> antioxidant assay.	104
Table 11: Results of <i>in vitro</i> antimicrobial assay	108
Table 12: MIC values (µg/ml) against <i>S. aureus</i>	110
Table 13: <i>In silico</i> physico-chemical properties and toxicity prediction results.....	115

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