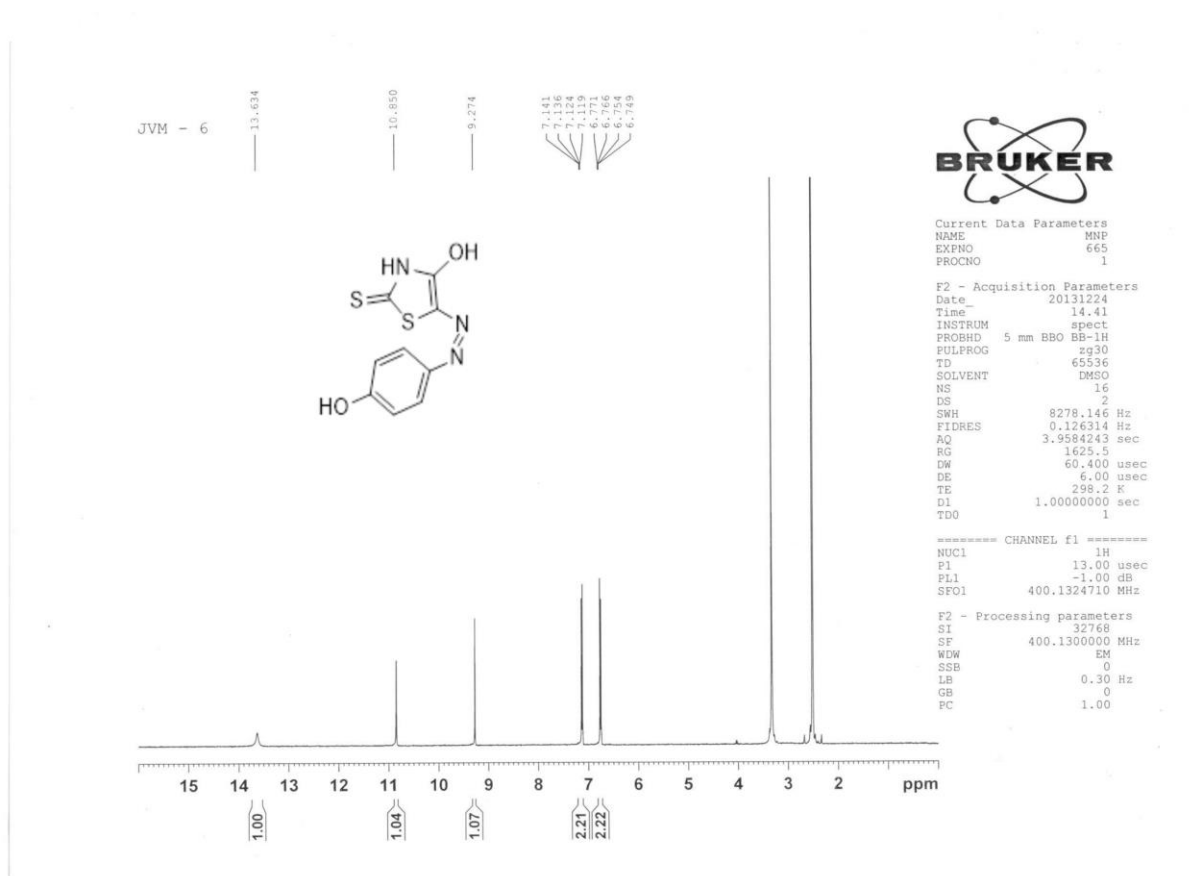
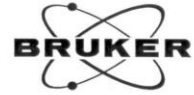
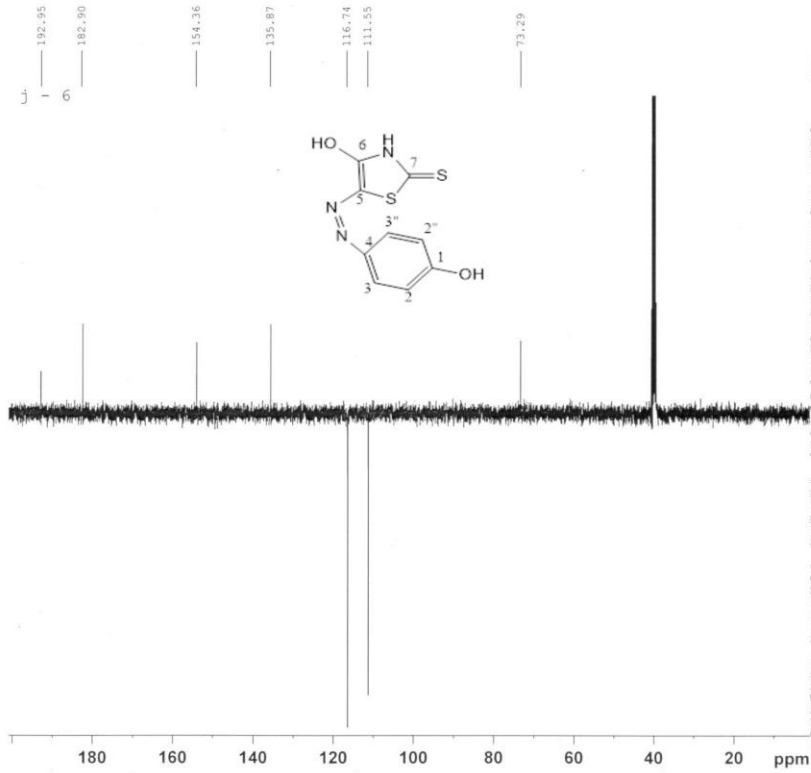


Supplementary material 1: ^1H NMR and ^{13}C NMR spectrum of 4-hydroxy-5-((4-hydroxyphenyl)diazenyl)thiazole-2(3H)-thione

^1H NMR



¹³C NMR



Current Data Parameters
NAME MNP
EXPNO 122
PROCNO 1

F2 - Acquisition Parameters
Date_ 20140725
Time 16.33
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG jmod
TD 65536
SOLVENT DMSO
NS 1024
DS 4
SMH 23980.814 Hz
FIDRES 0.365918 Hz
AQ 1.3664756 sec
RG 13004
DW 20.850 usec
DE 6.00 usec
TE 297.6 K
CNST2 145.000000
CNST11 1.000000
D1 2.0000000 sec
d20 0.00689655 sec
DELTA 0.00001783 sec
TDO 1

***** CHANNEL f1 *****
NUC1 13C
P1 14.00 usec
p2 28.00 usec
PL1 -4.00 dB
SFO1 100.6228298 MHz

***** CHANNEL f2 *****
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 -1.00 dB
PL12 14.46 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127690 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

Supplementary material 2: DNA binding and cytotoxic data of fluoroquinolones and complexes 5a-5g.

Complex	$K_b(M^{-1})$	$LC_{50}(\mu M)$
CFLH	2.60×10^3	70.83±3.54
GFLH	2.71×10^3	63.94±3.19
LFLH	2.63×10^3	86.68±4.33
OFLH	2.56×10^3	88.70±4.44
SFLH	2.93×10^3	76.49±3.82
NFLH	2.43×10^3	62.26±3.11
PFLH	2.31×10^3	72.92±3.46
VOSO ₄	-	9.99±0.50
3	-	10.15±0.50
5a	0.22×10^5	2.60±0.13
5b	2.92×10^5	8.33±0.42
5c	6.91×10^5	8.18±0.41
5d	0.91×10^5	9.56±0.48
5e	0.35×10^5	2.85±0.14
5f	3.34×10^5	7.52±0.38
5g	0.97×10^5	5.17±0.26

Supplementary material 3: Gel electrophoresis studies of compounds.

Lane	Compound	Form I (SC)	Form II (NC)	Form III (L)	% Cleavage
1	Control	81±3	19±3	-	-
2	VOSO ₄	73±3	27±3	-	9.87
3	5a	22±2	66±2	12±2	72.83
4	5b	16±1	58±1	24±1	80.24
5	5c	16±3	64±3	20±3	80.24
6	5d	14±3	72±3	14±3	82.71
7	5e	20±1	63±1	17±1	75.30
8	5f	16±2	63±2	21±2	80.24
9	5g	23±1	63±1	14±1	71.60
L	Compound 3	80±5	20±5	-	-
10	CFLH	31±5	58±5	11±5	63.95
11	GFLH	50±3	35±3	15±3	41.86
12	LFLH	36±3	51±3	13±3	58.14
1	OFLH	58±4	27±4	15±4	32.56
14	SFLH	60±5	22±5	18±5	30.23
15	NFLH	55±4	30±4	15±4	36.04
16	PFLH	55±5	31±5	14±5	36.05

Supplementary material 4: EPR spectrum of 5a at room temperature.

