

Figure 1

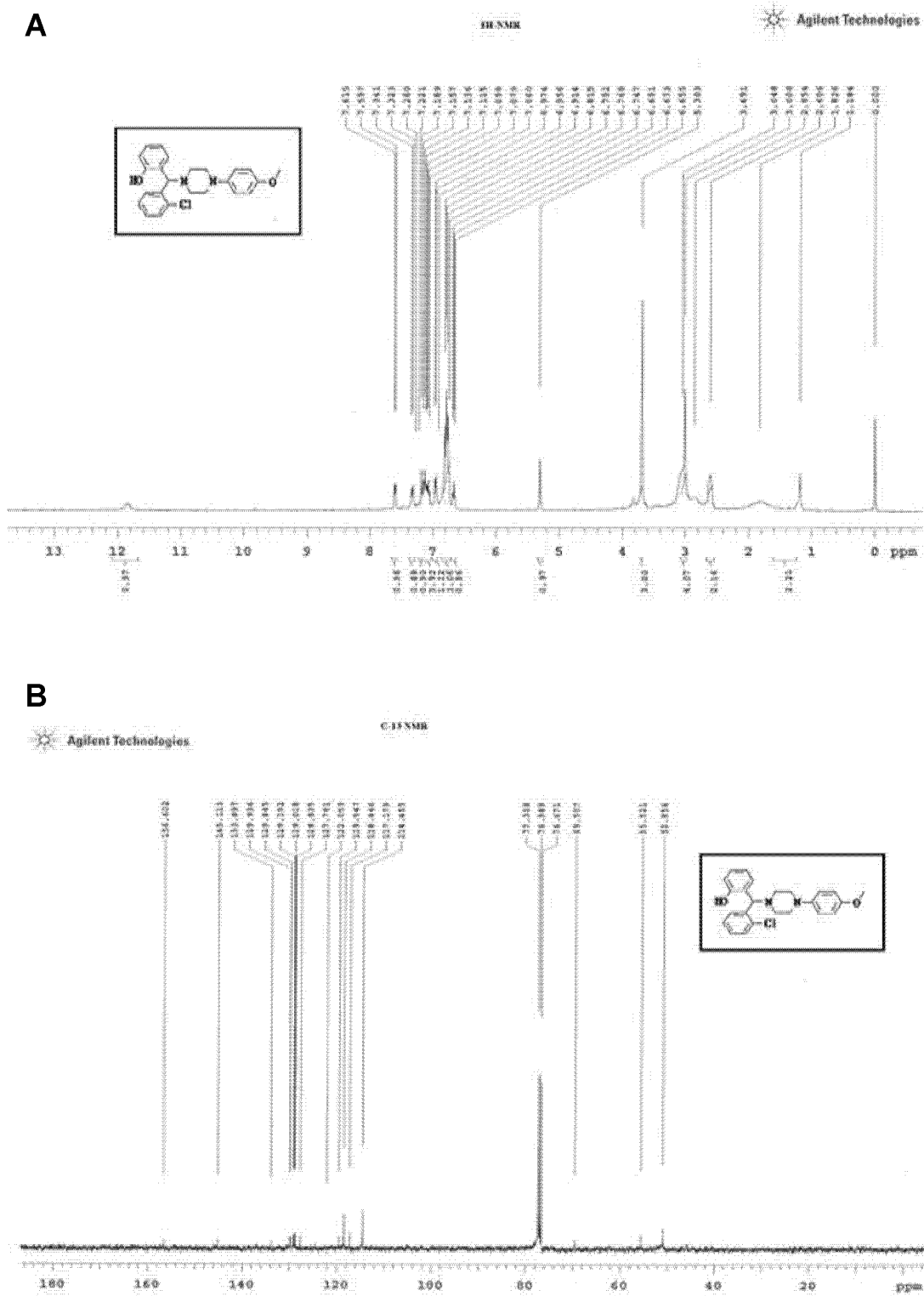


Figure 2

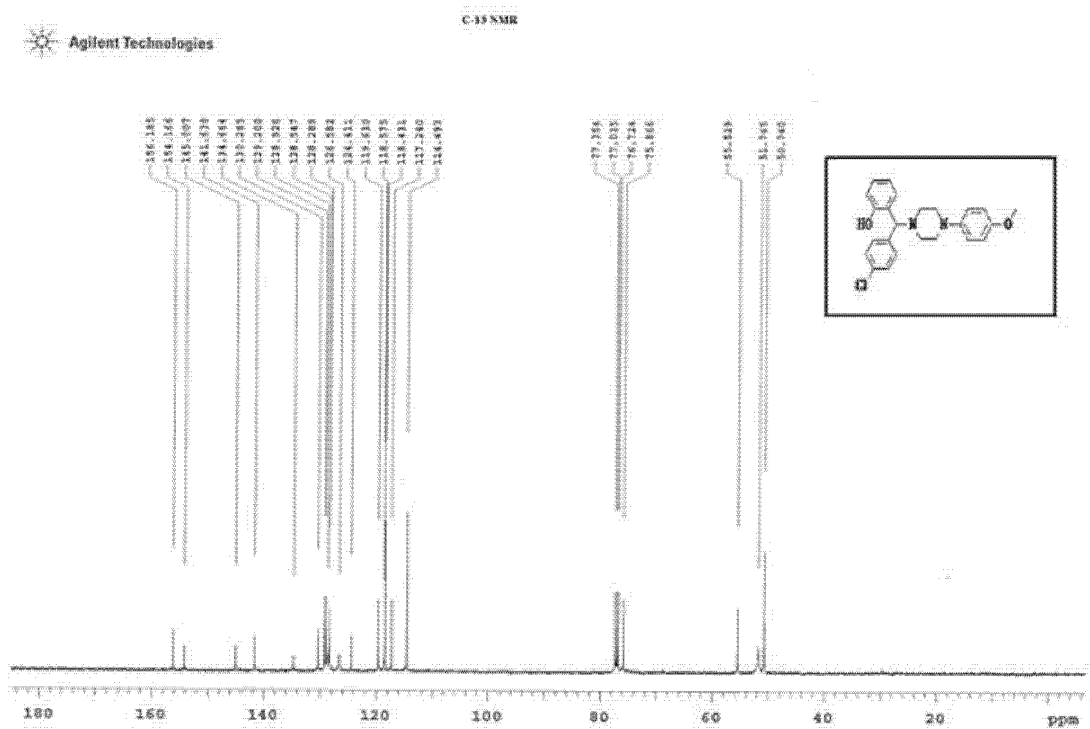


Figure 6

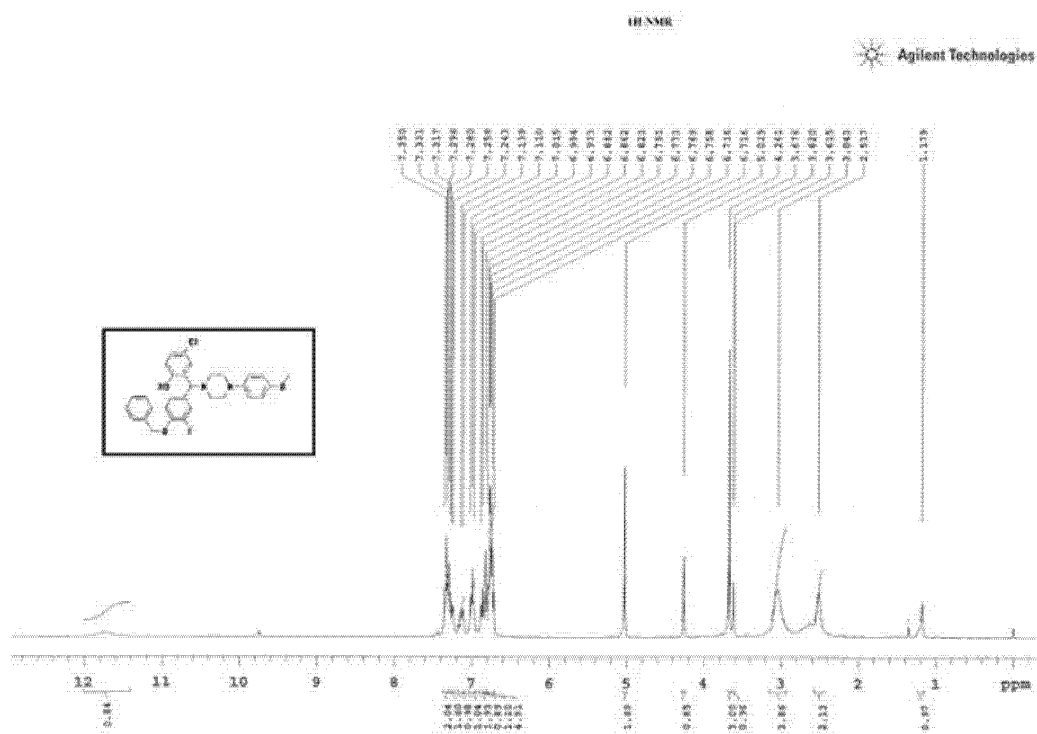


Figure 7

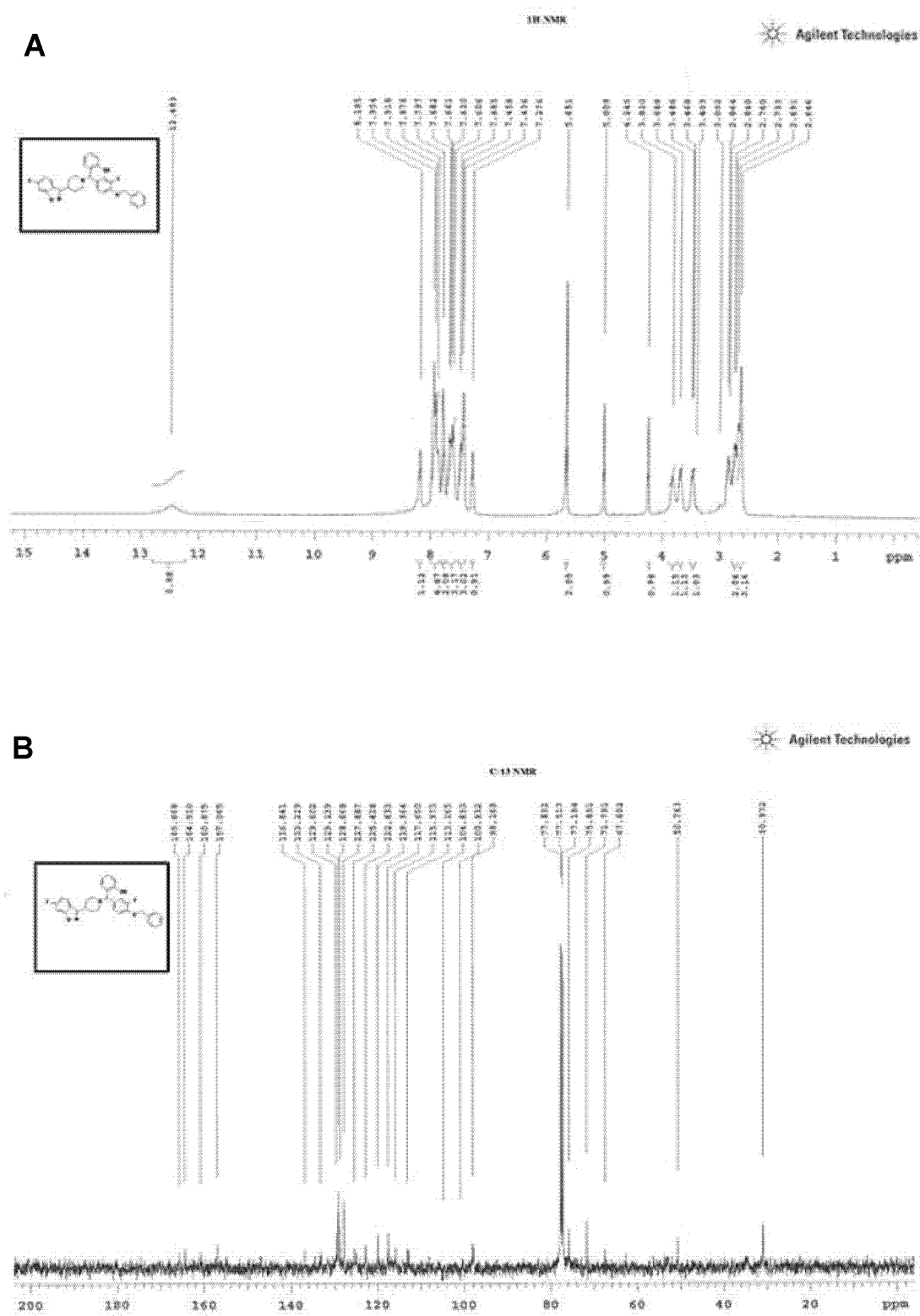


Figure 8

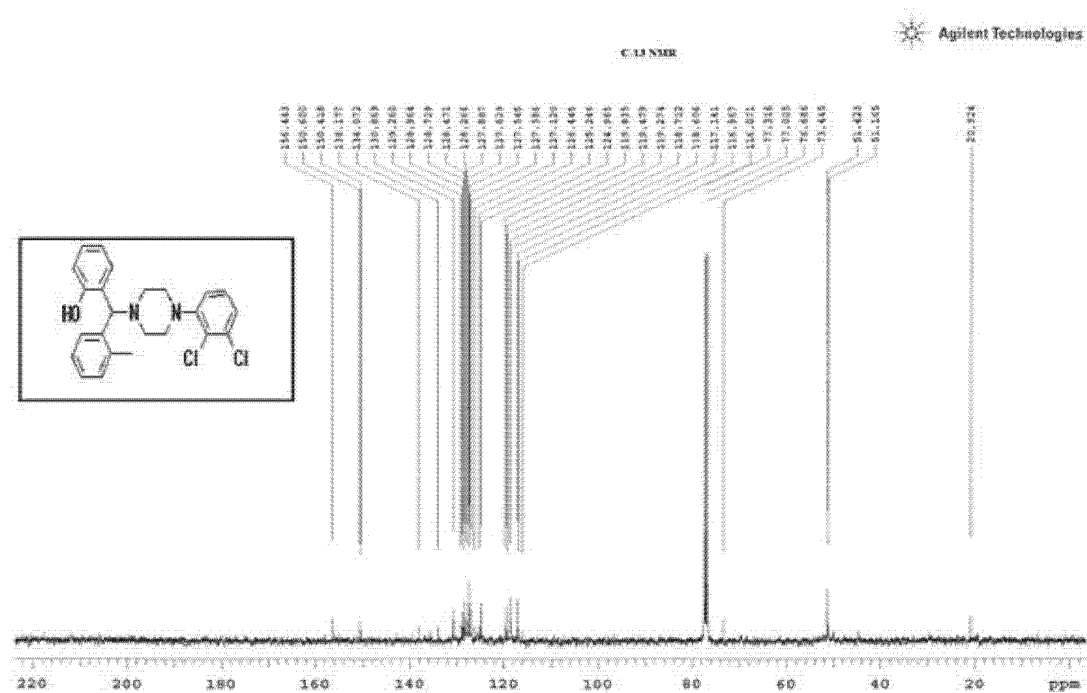


Figure 9

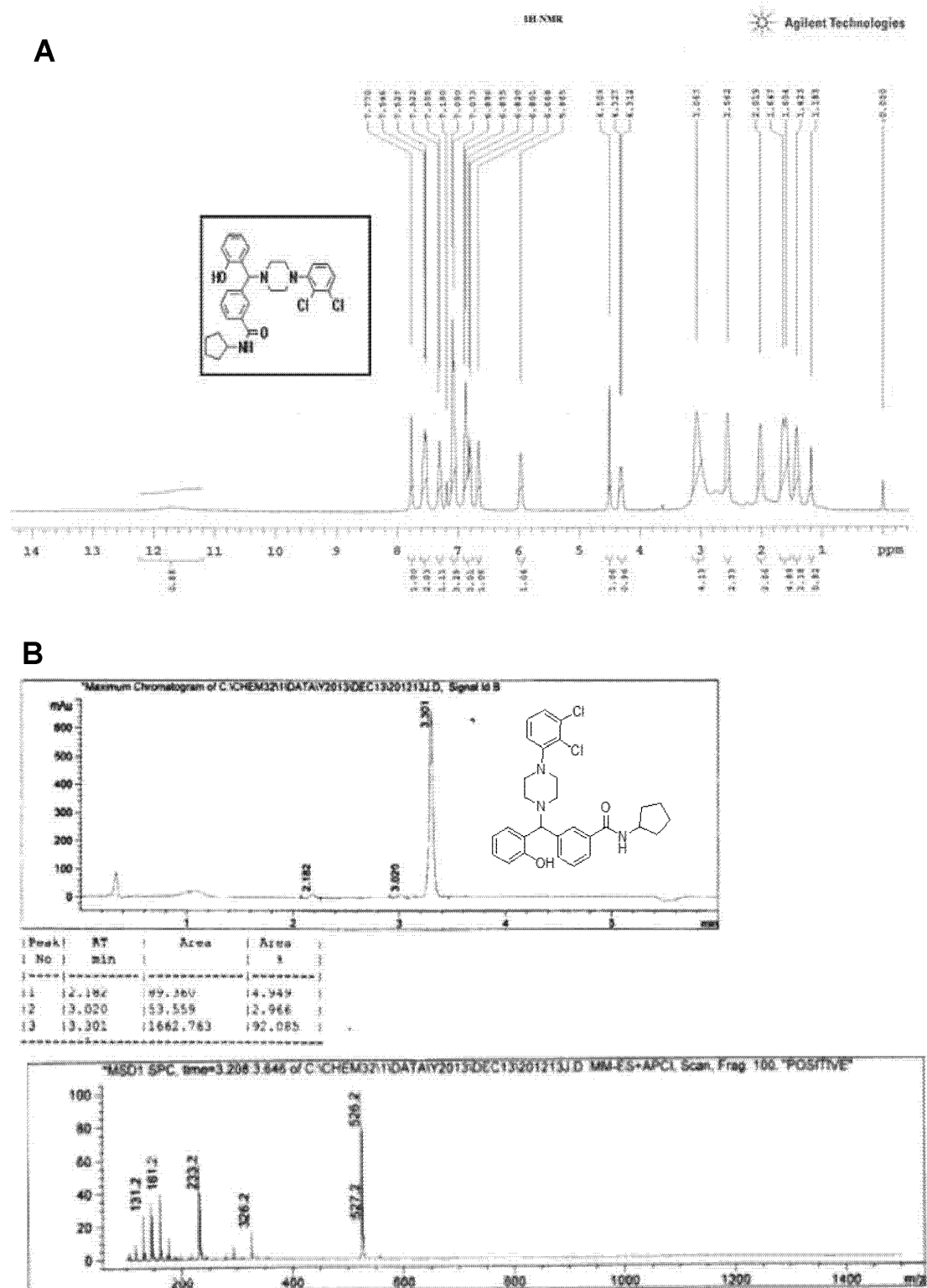


Figure 10

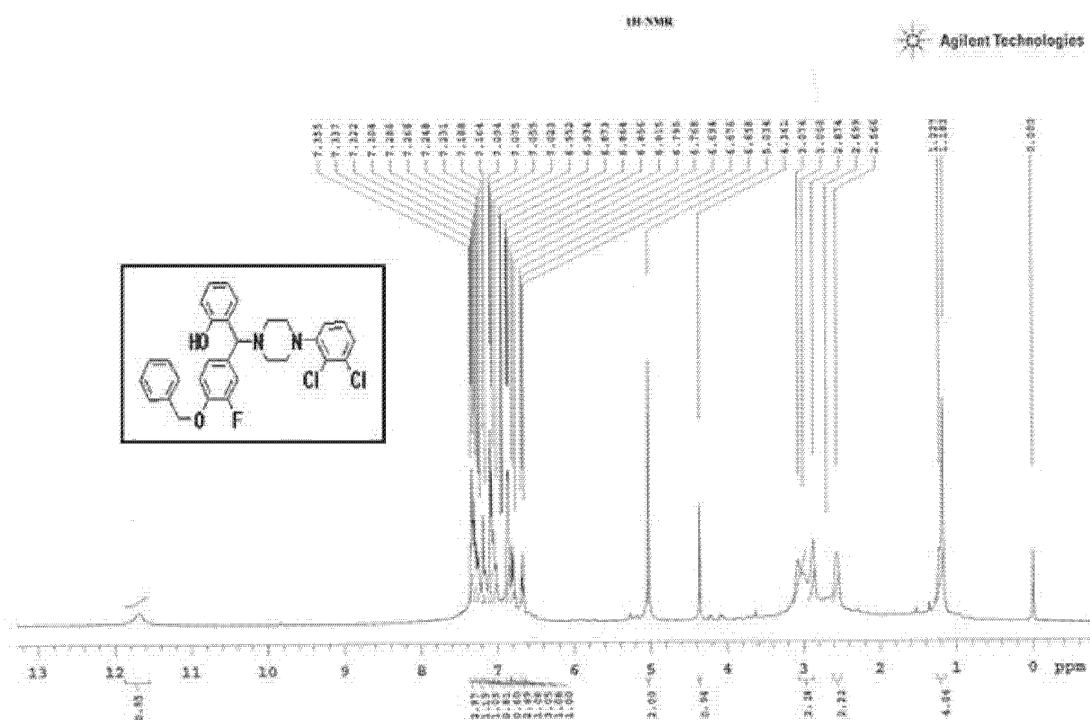


Figure 11IC₅₀ values of NPB in a range of carcinoma cell lines

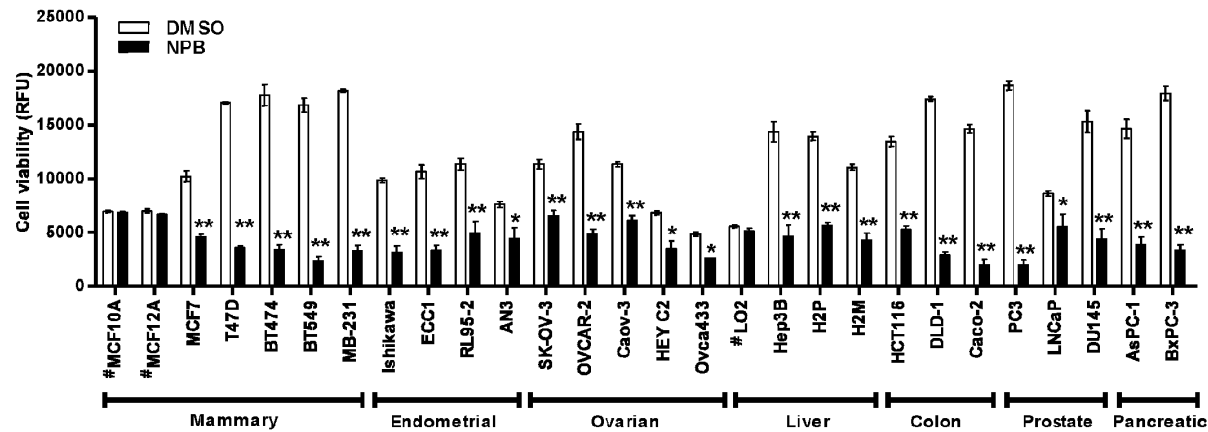
Panel of cell lines		NPB (μM)	
Tissue	Cells	IC ₅₀ [^]	±SD
Mammary	#MCF10A	NV	NV
	#MCF12A	NV	NV
	MCF7	6.5	1.06
	T47D	7.24	1.91
	BT474	5.31	2.04
	BT549	4.88	1.31
	MDA-MB-231	6.94	1.86
Endometrial	Ishikawa	7.51	2.08
	ECC1	2.61	0.97
	RL95-2	6.38	1.85
	AN3	11.37	2.61
Ovarian	SK-OV-3	7.34	2.03
	OVCAR-2	4.21	1.74
	Caov-3	3.95	0.93
	HEY C2	6.82	1.94
	Ovca433	9.79	2.48
Hepatocellular	#LO2	NV	NV
	Hep3B	6.94	1.07
	H2P	4.18	0.83
	H2M	5.57	2.61
Colon	HCT116	7.29	2.02
	DLD-1	2.46	0.91
	Caco-2	3.08	0.76
Prostate	PC3	3.77	1.51
	LNCaP	8.02	3.3
	DU145	6.99	1.72
Pancreatic	AsPC-1	3.83	1.14
	BxPC-3	7.25	2.09

Note: NV, No value; #, Normal cells;

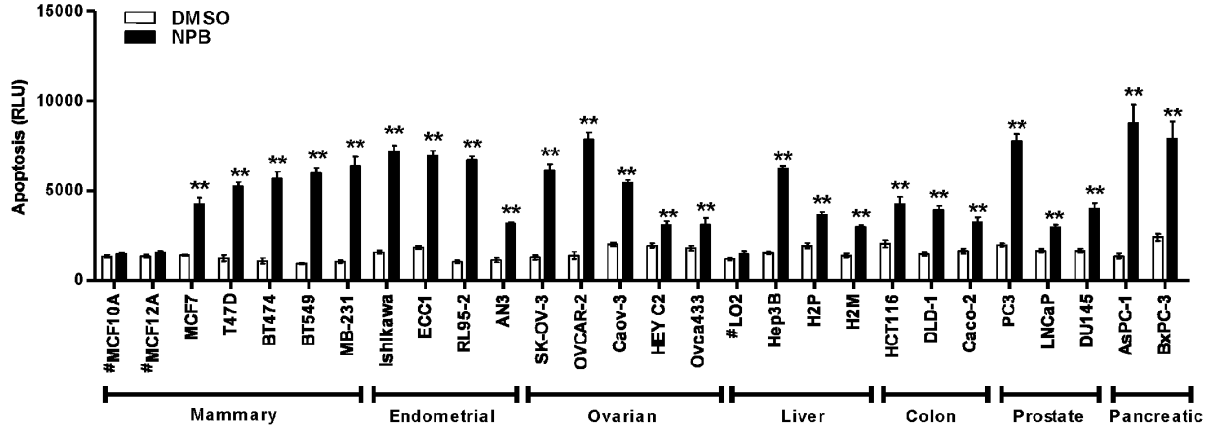
[^]IC₅₀ values calculated using GraphPad Prism software (Version 5.0). Cell viability measured Using AlamarBlue® cell viability assay.

Figure 12

A. Cell viability



B. Caspase 3/7 activity(Apoptosis)



C. Cytotoxicity

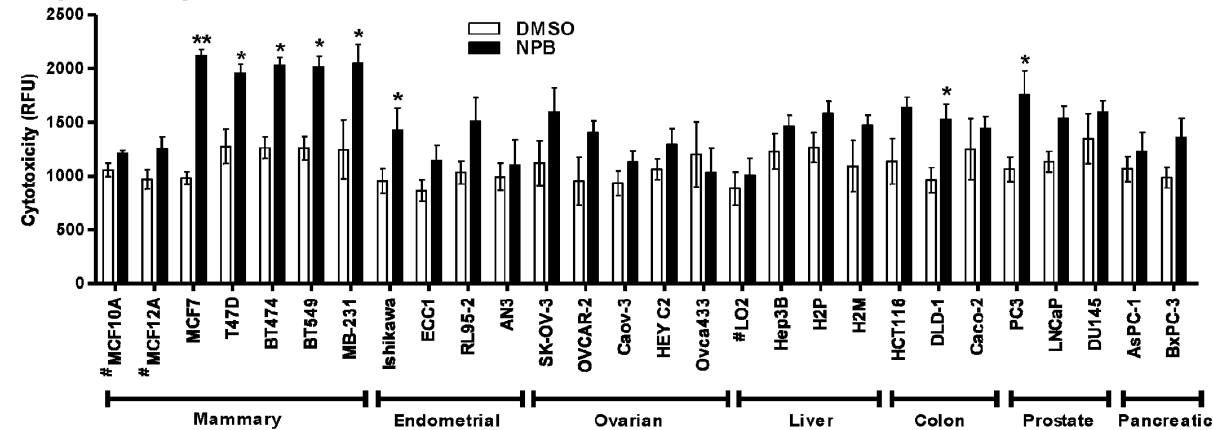


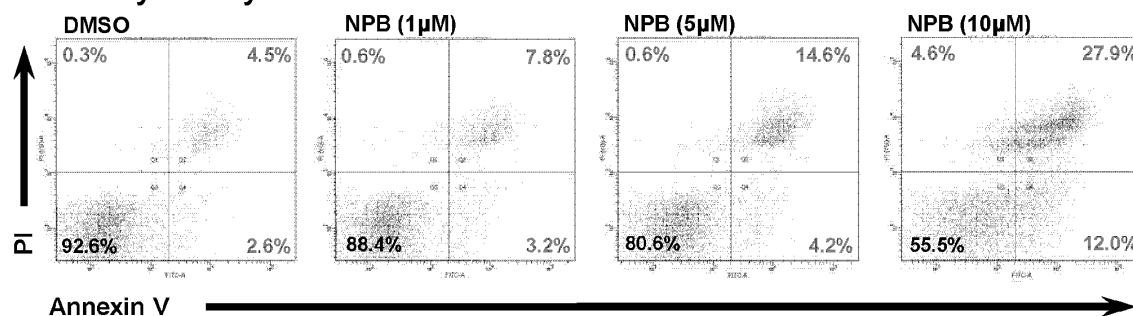
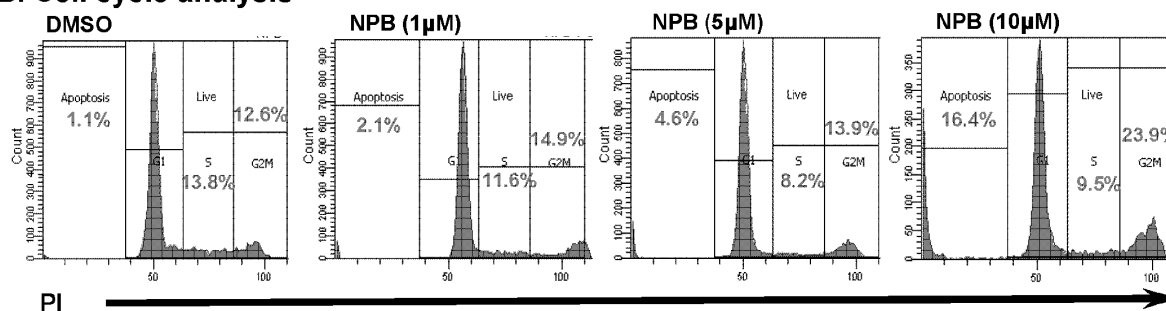
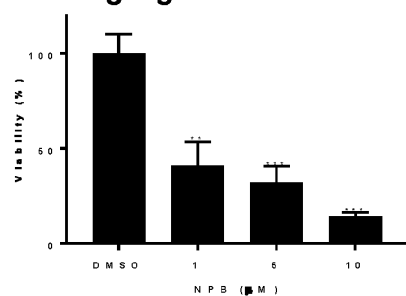
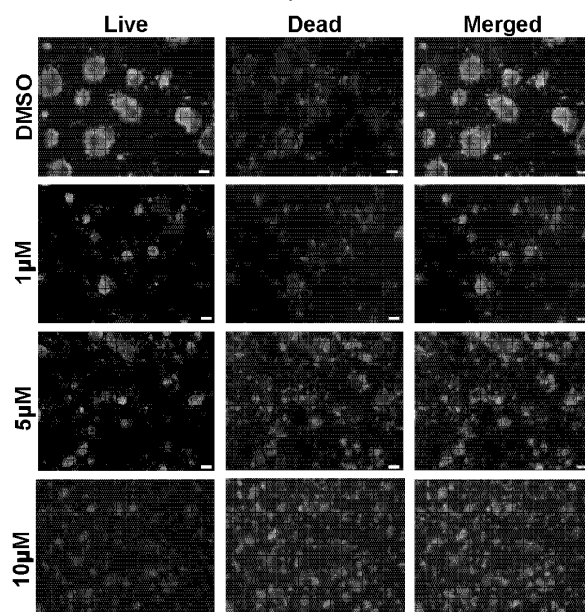
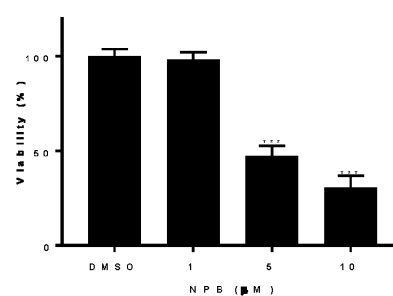
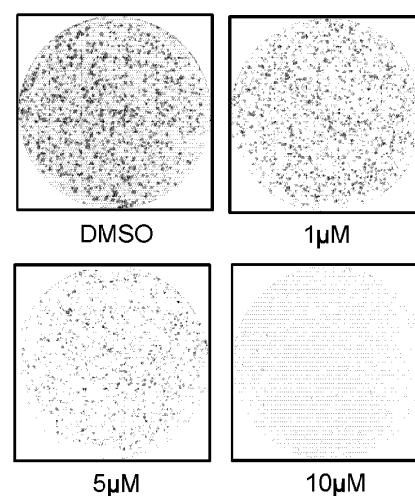
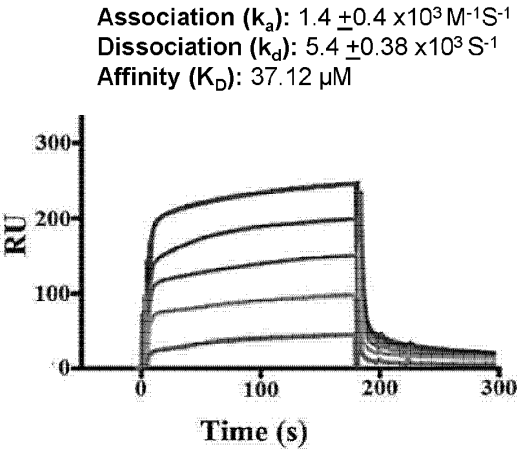
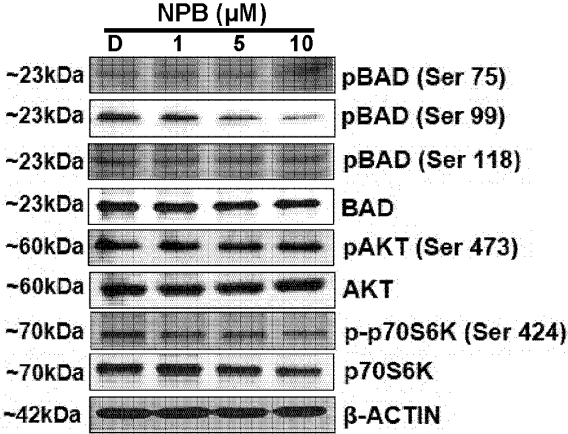
Figure 13:**A. Flow cytometry****B. Cell cycle analysis****C. 3D matrigel growth****D. Soft agar colony formation****E. Foci formation**

Figure 14:

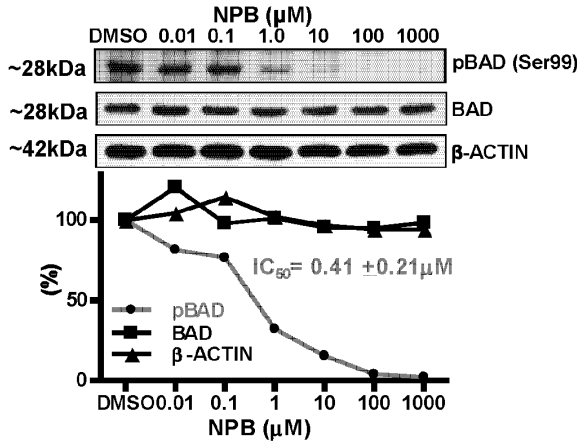
A. Surface Plasmon Resonance (SPR)



C. Western blot



B. Western blot



D. Western blot

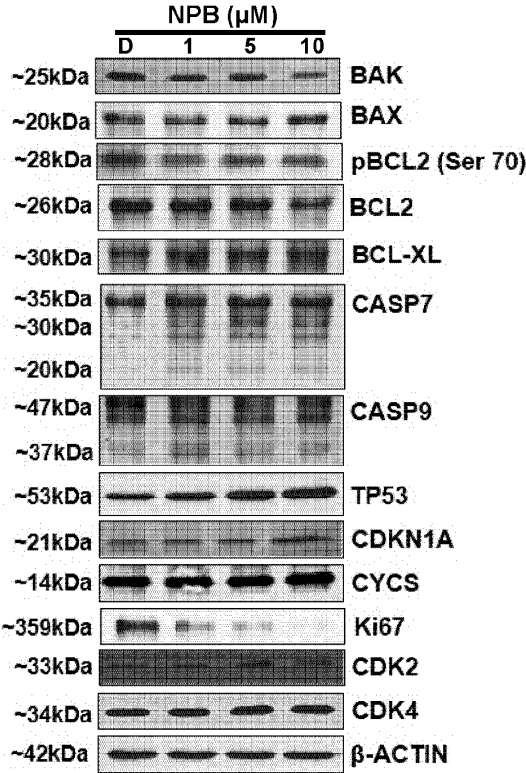
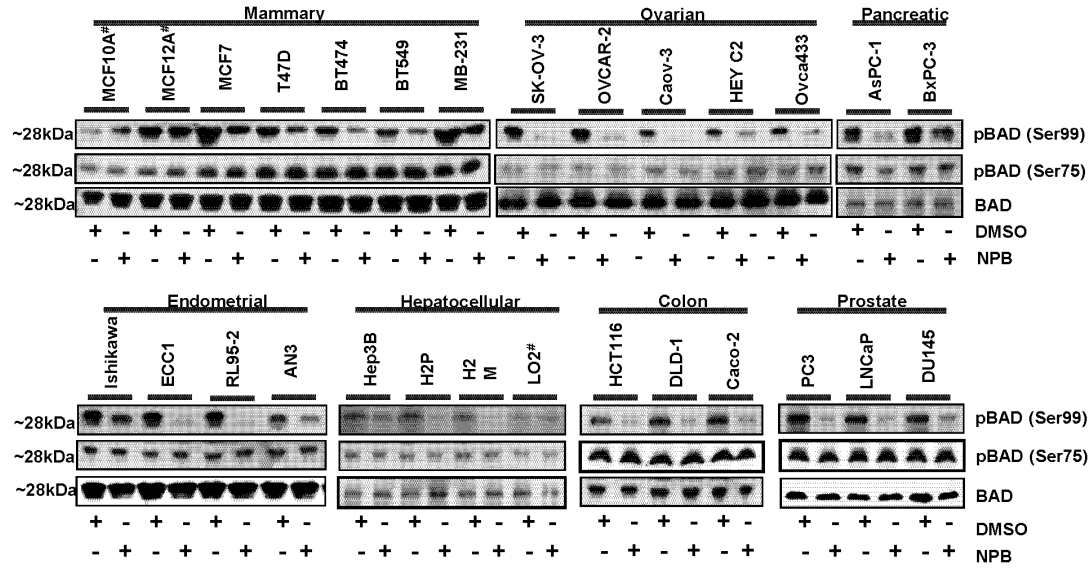


Figure 15:

A. Western blot



B. Western blot

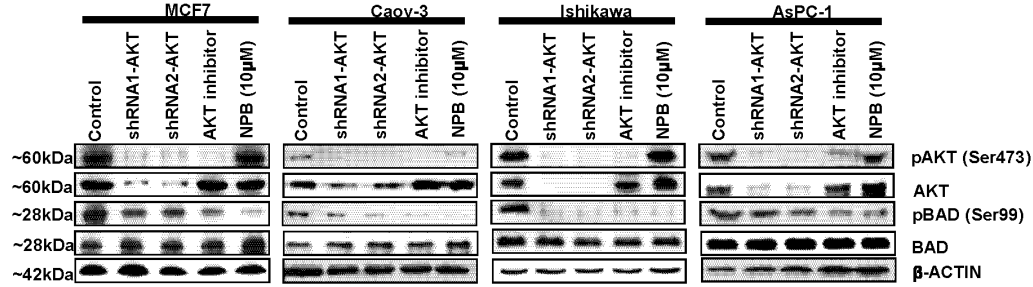
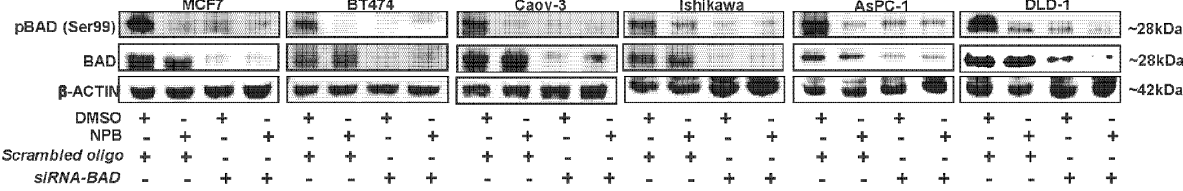
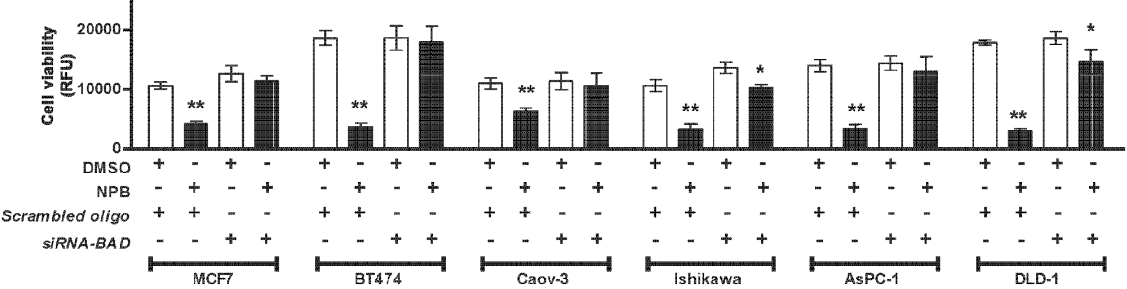


Figure 16:

A. Western blot



B. Cell viability



C. Caspase 3/7 activity

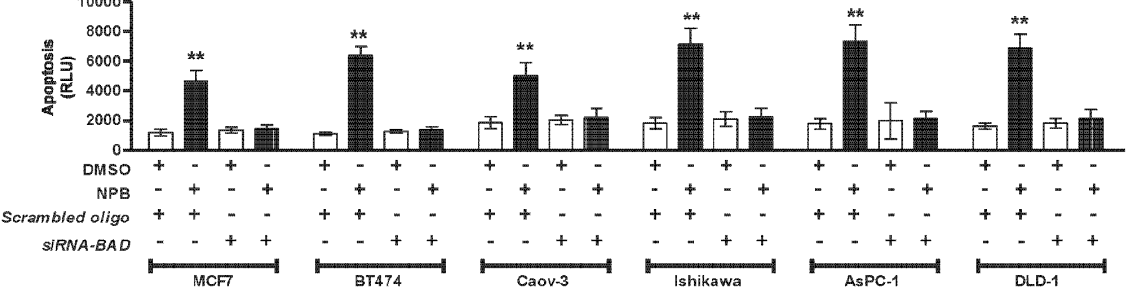
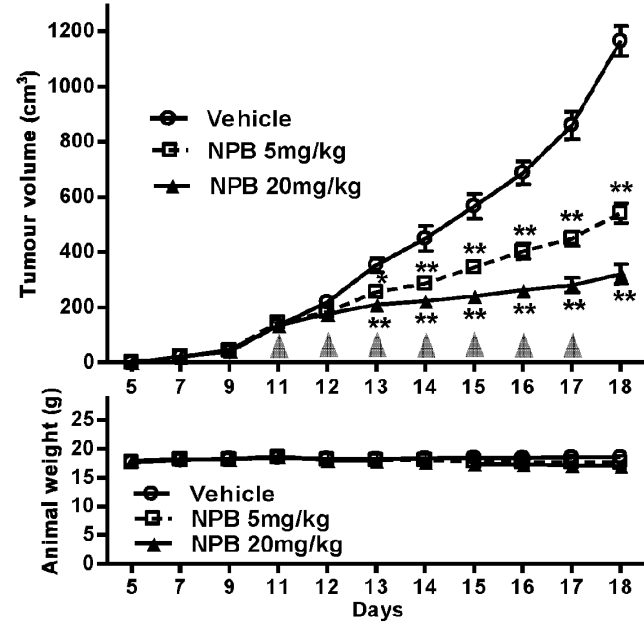
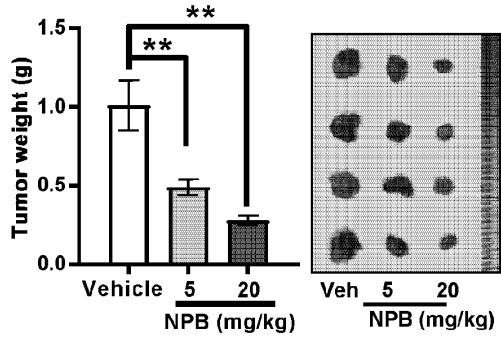


Figure 17

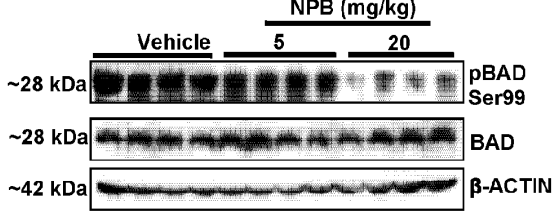
A. Xenograft assay



B. Tumour weight



C. Western blot



D. Histology

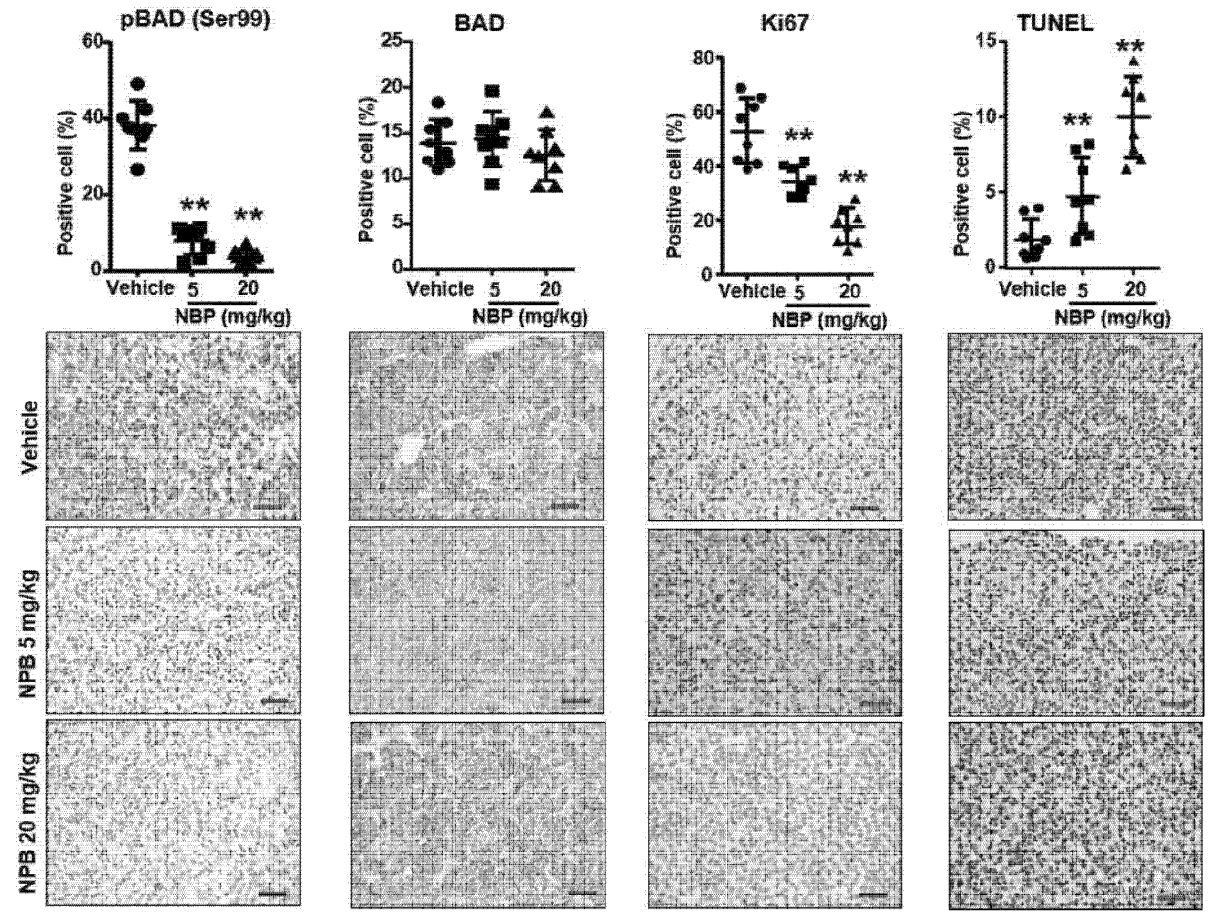
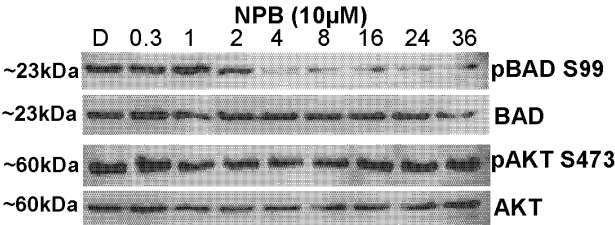


Figure 18:

A. Western blot



B. Kinase array

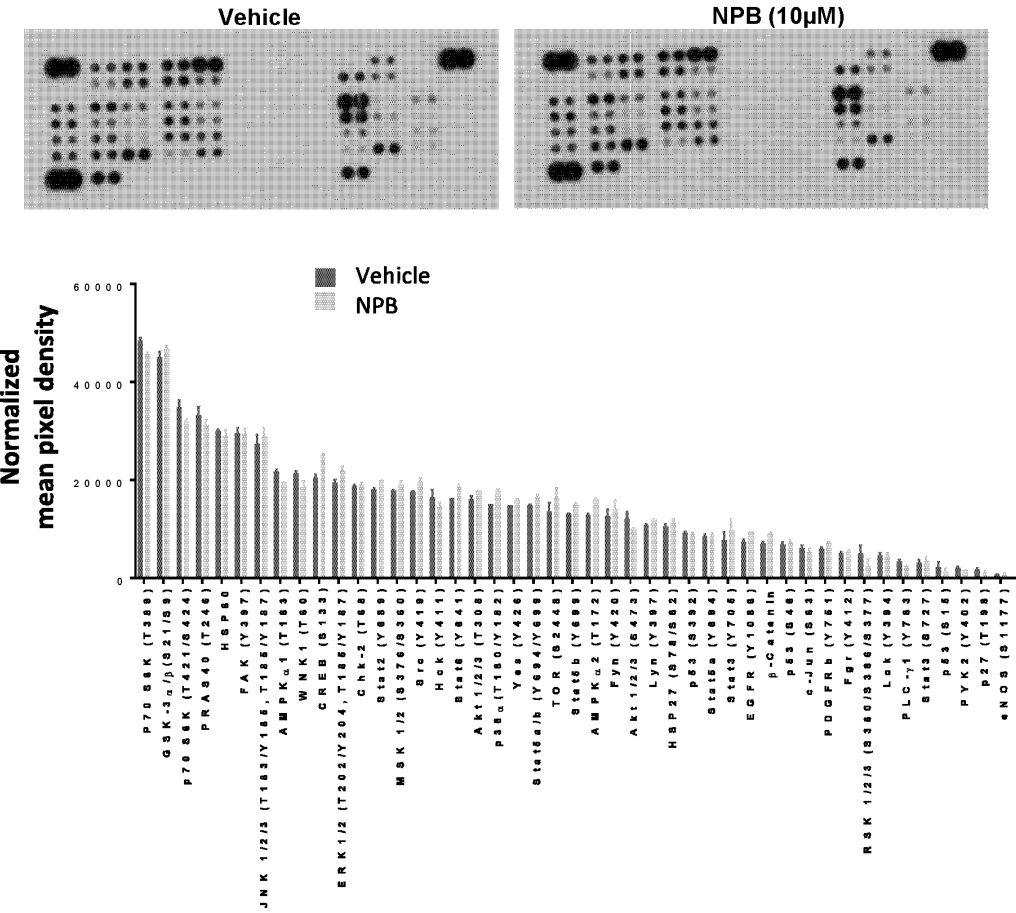


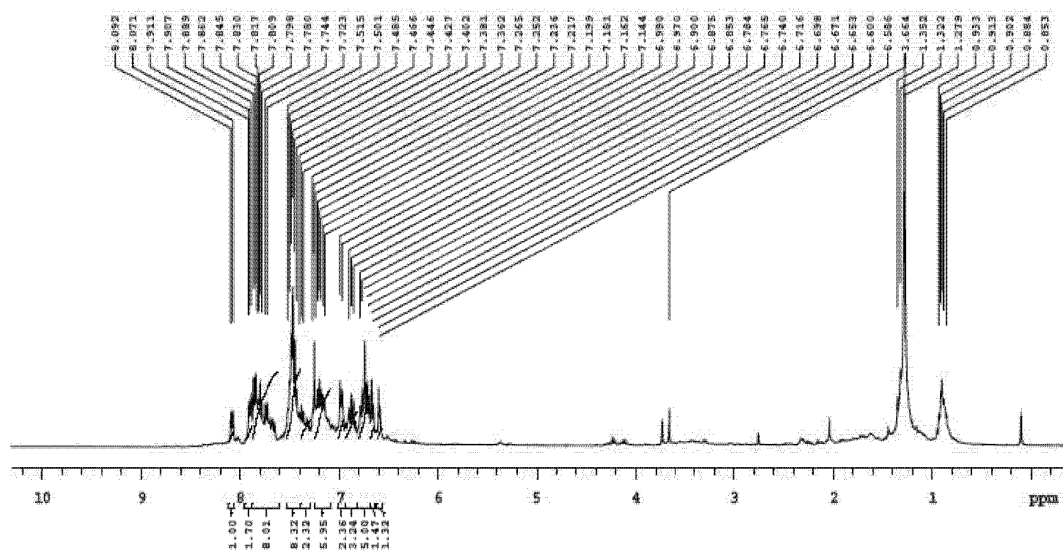
Figure 19

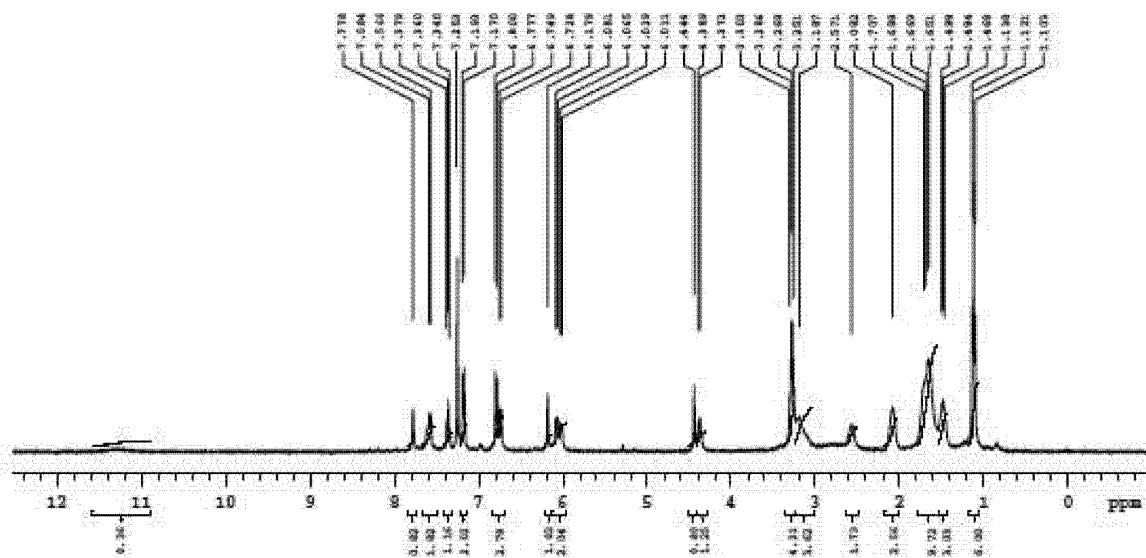
Figure 20

Figure 21

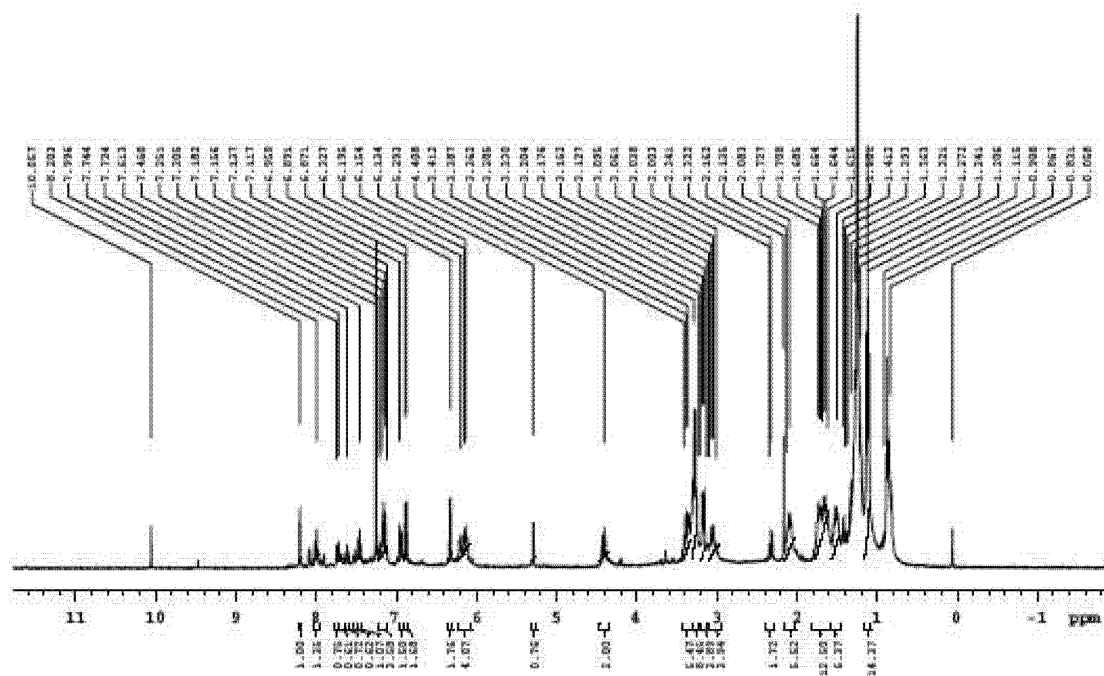


Figure 22

A

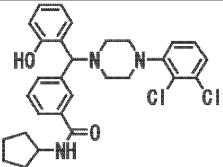
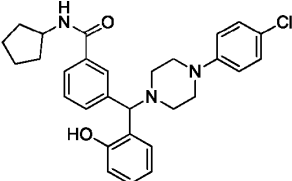
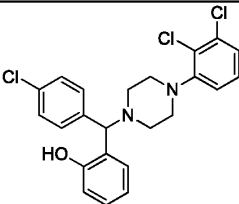
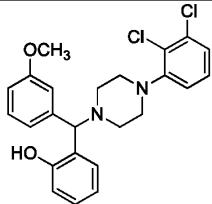
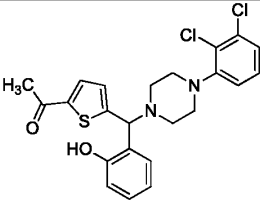
Analogues	Structure	MCF7	A2780
		IC ₅₀	IC ₅₀
NPB	 MW: 523	9.52	5.33
NCK1	 Molecular Weight: 490.0363	NV	26.63
NCK2	 Molecular Weight: 447.7846	NV	19.74
NCK3	 Molecular Weight: 443.3656	NV	50.82
NCK4	 Molecular Weight: 461.4040	NV	NV

Figure 22**B**

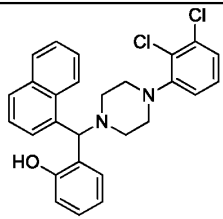
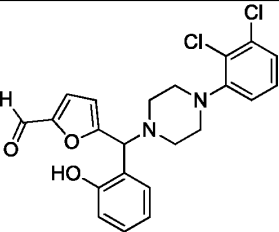
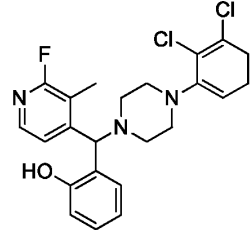
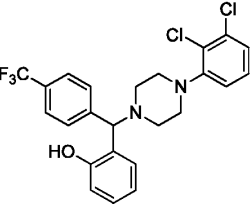
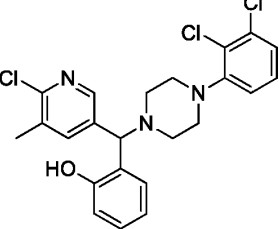
NCK5	 Molecular Weight: 463.3983	5.907	27.39
NCK6	 Molecular Weight: 431.3118	3.114	6.68
NCK7	 Molecular Weight: 448.3606	47.28	38.74
NCK8	 Molecular Weight: 481.338	59.52	23.66
NCK9	 Molecular Weight: 462.7993	NV	16.06

Figure 22

C

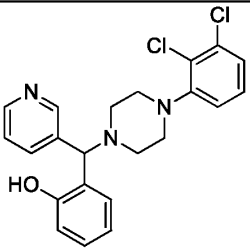
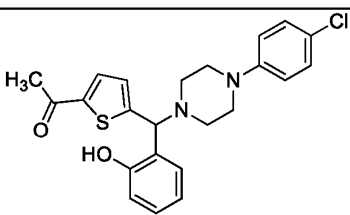
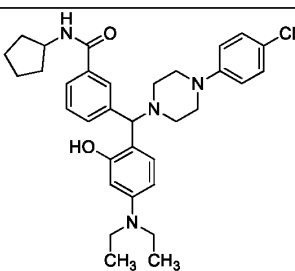
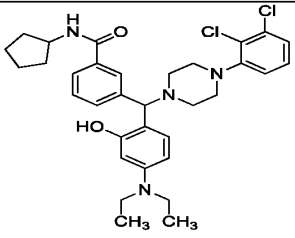
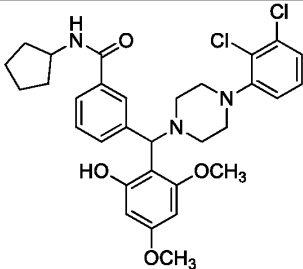
NCK10	 Molecular Weight: 414.3276	24.83	35.86
NCK14	 Molecular Weight: 426.9589	NV	23.26
NCK16	 Molecular Weight: 561.16	23.35	9.53
NCK18	 Molecular Weight: 595.60	20.93	2.97
NCK19	 Molecular Weight: 584.53	NV	48.02

Figure 22**D**

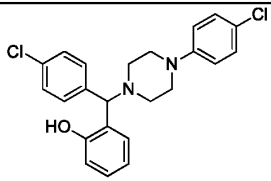
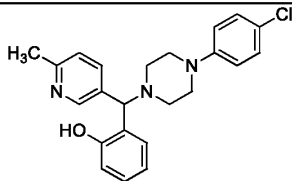
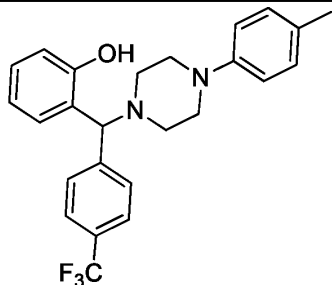
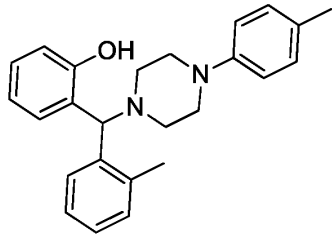
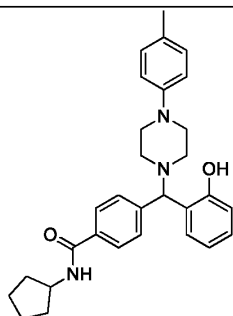
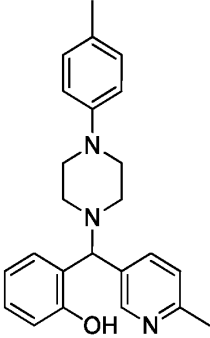
NCK20	 Molecular Weight: 413.34	253.8	8.395
NCK21		20.91	21.90
SG2	 Molecular Weight: 426.4740	155.6	89.69
SG1	 Molecular Weight: 372.5026	NV	NV
SG3	 Molecular Weight: 469.6178	56.47	20.69

Figure 22**E**

SG7		49.87	41.61
SG 4, 5, and 6	NOT TESTED		