

Supplementary Materials

Anticancer Activity of Indeno[1,2-b]-pyridinol Derivative as a New DNA Minor Groove Binding Catalytic Inhibitor of Topoisomerase II α

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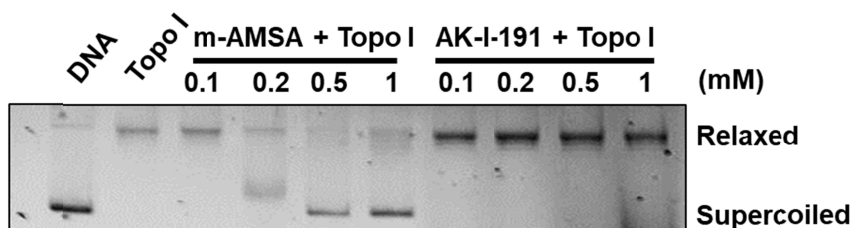
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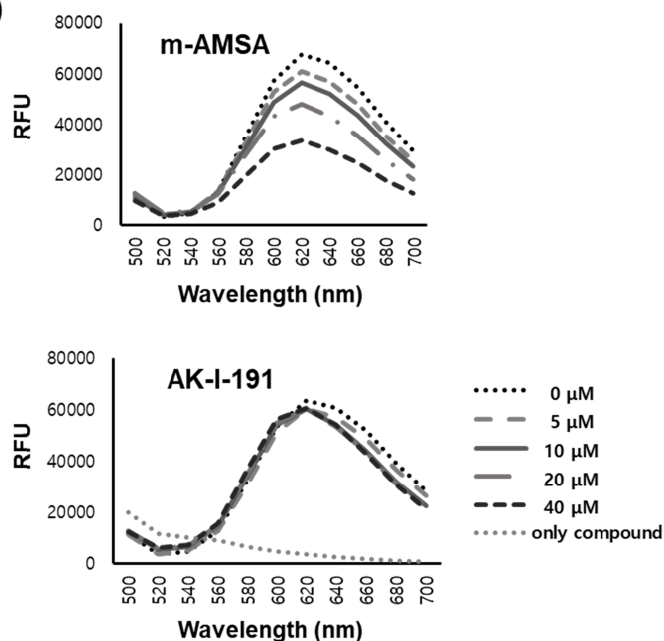
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(A)



(B)



Supplementary Figure 1. Evaluation of DNA intercalation of AK-I-191. (A) DNA unwinding assay of AK-I-191. Supercoiled pBR322 DNA 100 ng was relaxed by incubation with 2 units of human DNA topoisomerase I for 30 minutes at 37 °C and m-AMSA or AK-I-191 (100-1000 μ M in final concentrations) was added and continuously. (B) EtBr displacement assay of AK-I-191. EtBr (20 μ M) and ctDNA (30 μ M) were mixed in 96 well plate and incubated for 30 minutes. The mixture was titrated with varying concentrations of m-AMSA (positive control) or AK-I-191. Emission spectra of EB-ctDNA complex were recorded from 500 nm to 700 nm with a fixed excitation in 471 nm.

Supplementary Table 1. Statistical Evaluation of Kaplan-meier plots in Fig. 4A.

	201231_as_at		201292_at	
	<i>P</i> value	Hazard Ratio [95% CI*]	<i>P</i> value	Hazard Ratio [95% CI]
Luminal A	0.0082	1.883 [1.178-3.010]	0.0012	2.175 [1.357-3.485]
Luminal B	0.2641	1.967 [0.6000-6.449]	0.3928	0.5971 [0.1829-1.949]
HER2 enriched	0.4157	0.7796 [0.4280-1.420]	0.1268	0.6270 [0.3443-1.142]
Triple Negative	0.7277	1.079 [0.7029-1.657]	0.0918	1.447 [0.9417-2.223]

*CI, Confidence interval