

Figure S1. Verticillin A structure. The chemical structure of verticillin A is shown.

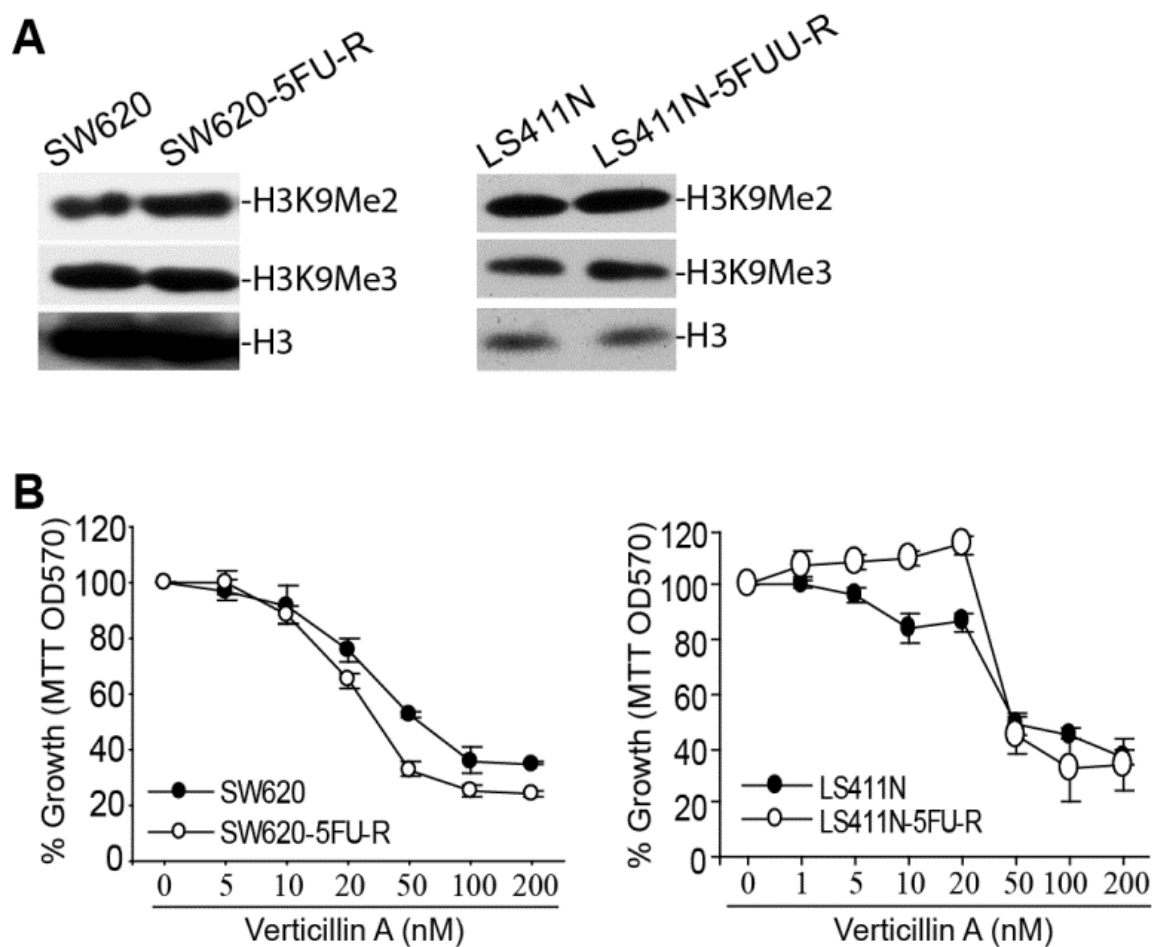


Figure S2. Verticillin A effectively suppresses 5-FU-resistant metastatic human colon carcinoma cell growth *in vitro*. A. H3K9Me2/3 level in the parent and 5-FU-resistant human colon carcinoma cells. B. Verticillin A exhibits potent suppressive activity against 5-FU-resistant metastatic human colon carcinoma cells. The indicated tumor cells were cultured in the presence of verticillin A at the indicated doses for 3 days and analyzed for growth using MTT assays.

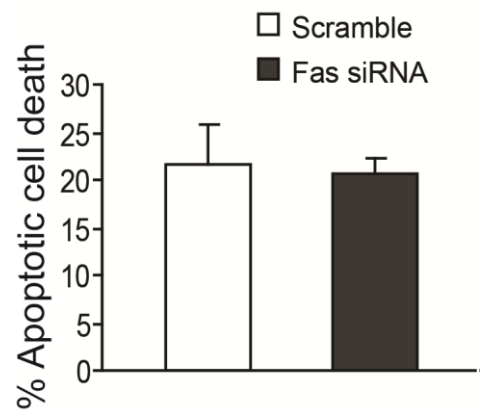


Figure S3. Silencing Fas expression does not affect verticillin A sensitization of human colon carcinoma cells to 5-FU-induced apoptosis. SW620-5FUR cells were transfected with scramble of Fas-specific siRNA overnight. Cells were then cultured in the presence of 5-FU (1 $\mu\text{g/ml}$) with or without verticillin A (20 nM) for 24h. Cells were then stained with Annexin A and PI. % apoptotic cell death is calculated as % Annexin V+PI+ cells in the presence of verticillin A and 5-FU - % Annexin V+ PI+ cells in the absence of verticillin A and presence of 5-FU.

Table S1. PCR Primer sequences

Gene	Assay	Primer	Sequence
<i>BNIP3</i>	Methylation-sensitive PCR	Unmethylation-Forward	5'-TGTTTTTTTTAAAGGAGAATTTGG-3',
<i>BNIP3</i>	Methylation-sensitive PCR	Un-methylation-Reverse	5'-CAAAAACAAAACCTACAATACAC-3'
<i>BNIP3</i>	Methylation-sensitive PCR	Methylation-Forward	5'-TTATCGTTTTTTTTAAAGGAGAATTC-3'
<i>BNIP3</i>	Methylation-sensitive PCR	Methylation-Reverse	5'-GAAAACAAAACCTACGATACG-3'
<i>FAS</i>	Promoter ChIP1	Forward	5'-TTGGGTAACCTTTGGGTGGTCC-3'
<i>FAS</i>	Promoter ChIP1	Reverse	5'-ATGTGGTTGGTTGTGAAGGGAG-3'
<i>FAS</i>	Promoter ChIP2	Forward	5'-GGTGGACGATGCCAAAGGAATAC-3'
<i>FAS</i>	Promoter ChIP2	Reverse	5'-CACTCAGAGAAAGACTTGCGGG-3'
<i>FAS</i>	RT-PCR Fas region 1*	Forward	5'-ATTATCGTCCAAAAGTGTTAAT-3'
<i>FAS</i>	RT-PCR Fas region 1*	Reverse	5'-TGCATGTTTTCTGTACTTCCTT-3'
<i>FAS</i>	RT-PCR Fas region 2*	Forward	5'-ATGAACCAGACTGCGTGCCCTG-3'
<i>FAS</i>	RT-PCR Fas region 2*	Reverse	5'-AAGAAGAAGACAAAGCCACCCC-3'
<i>FAS</i>	RT-PCR Fas region 3*	Forward	5'-GTATGTGAACACTGTGACCCTTGC-3'
<i>FAS</i>	RT-PCR Fas region 3*	Reverse	5'-GGTTTTCCTTCTGTGCTTCTGC-3'
<i>G9A</i>	RT-PCR	Forward	5'-TCTCTGATGCTGAGGCTGATGTG-3'
<i>G9A</i>	RT-PCR	Reverse	5'-GATGAAGCGGCTGATGTTGC-3'
<i>SUV39H1</i>	RT-PCR	Forward	5'-GCTATGACTGCCCAAATCGTGTG-3'
<i>SUV39H1</i>	RT-PCR	Reverse	5'-TGTTCTTGCGAATCTTCTCCAGG-3'
<i>SUV39H2</i>	RT-PCR	Forward	5'-CGAGGACAGTTCTATGACAACAAGG-3'
<i>SUV39H2</i>	RT-PCR	Reverse	5'-CAATGCTATTCGGGGAAGACG-3'

* The three PCR primer pairs amplify three different regions of the Fas cDNA.