



Figure S1 Amentoflavone increases miR-16-5p levels to inhibit EMT in CRC cells. (A) qPCR validation of the miR-16 family miRNAs expression in HCT116 and SW480 cells treated with amentoflavone (5 nM) or vehicle. (B) qPCR validation of miR-16-5p expression in HCT116 and SW480 cells treated with inhibitor-NC or miR-16 inhibitor. (A, B) N=3, mean \pm SEM, *P<0.05 and #P>0.05, by Student's *t*-test. EMT, epithelial to mesenchymal transition; CRC, colorectal cancer; qPCR, quantitative polymerase chain reaction; SEM, Structural Equation Modeling.

Table S1 Antibody list

Antigens	Manufacturer	Application
ACTIN	abcam (ab8226)	1:10,000 for WB
HMGA2	abcam (ab207301)	1:1,000 for WB
E-Cadherin	abcam (ab40772)	1:1,000 for WB
N-Cadherin	abcam (ab76011)	1:1,000 for WB
Vimentin	abcam (ab92547)	1:1,000 for WB
β -Catenin	abcam (ab32572)	1:1,000 for WB

Table S2 The predicted target genes of miR-16-5p

Target gene	Representative transcript	Representative miRNA	Cumulative weighted context++ score	Aggregate P _{CT}
PHF19	ENST00000373896.3	hsa-miR-16-5p	-0.83	0.97
CDC42SE2	ENST00000360515.3	hsa-miR-16-5p	-0.78	0.85
RAB9B	ENST00000243298.2	hsa-miR-16-5p	-0.69	0.93
N4BP1	ENST00000262384.3	hsa-miR-16-5p	-0.58	0.9
HMGA2	ENST00000403681.2	hsa-miR-16-5p	-0.55	0.85
PLAG1	ENST00000316981.3	hsa-miR-16-5p	-0.52	0.98
SYNRG	ENST00000339208.6	hsa-miR-16-5p	-0.51	0.89
RASSF8	ENST00000541490.1	hsa-miR-16-5p	-0.51	0.9

Table S3 Association between miR-16-5p expression and HMGA2 mRNA levels in 96 CRC patients

HMGA2 mRNA level	miR-16-5p level		χ^2	P value [§]
	High (N=48)	Low (N=48)		
High (N=48)	12	36	24.000	<0.001
Low (N=48)	36	12		

[§], Pearson chi-square test was used for comparison between subgroups. CRC, colorectal cancer.