

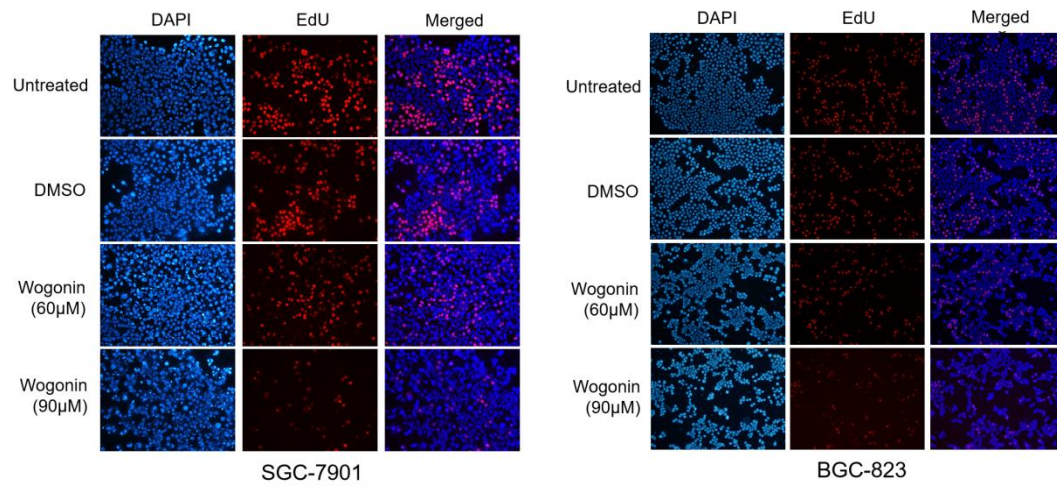


Figure S1. Representative fluorescence photos of EdU incorporation assays of SGC-7901 and BGC-823 cells treated with wogonin at different concentrations.

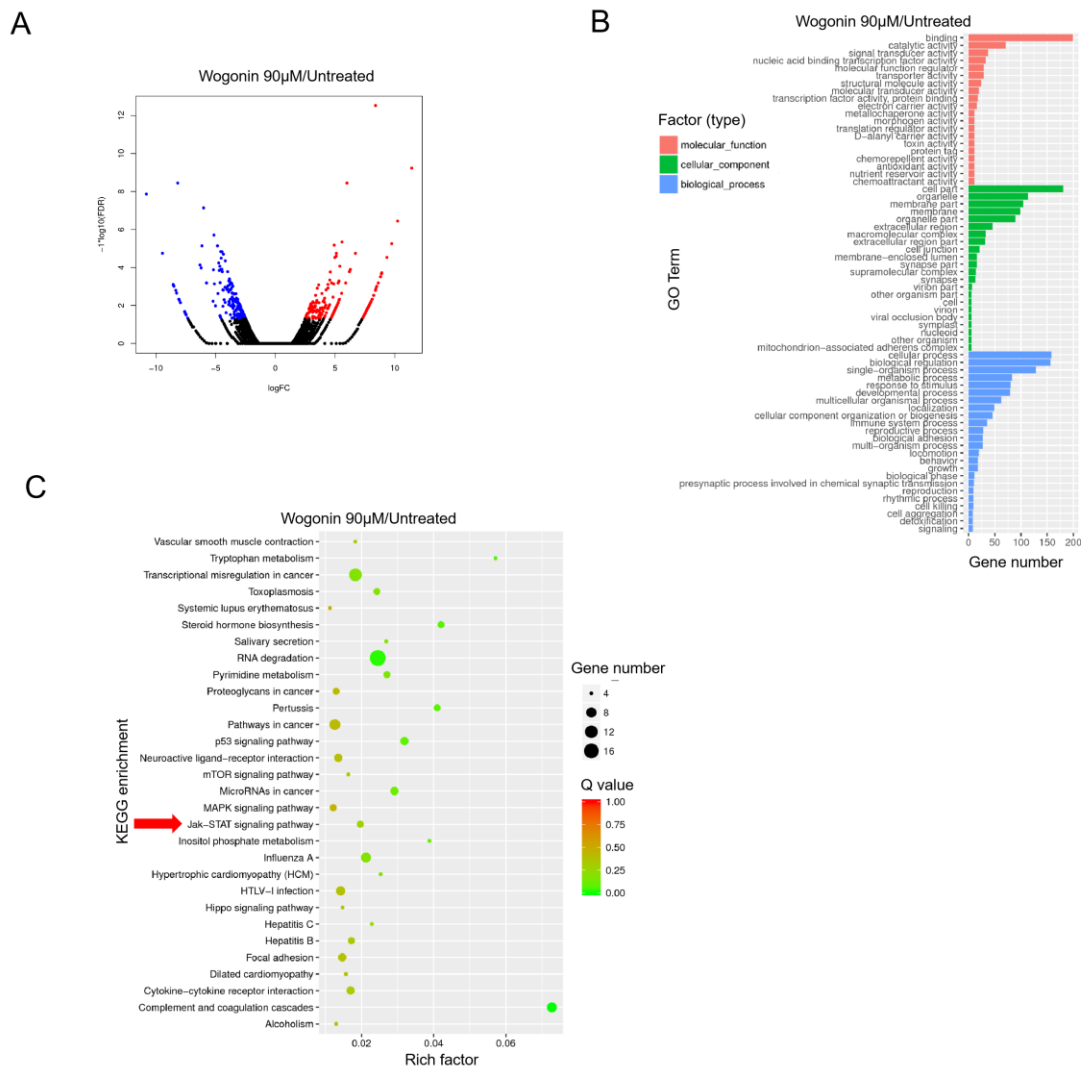


Figure S2. Transcriptomic analysis of wogonin-treated GC cells compared with the untreated cells.

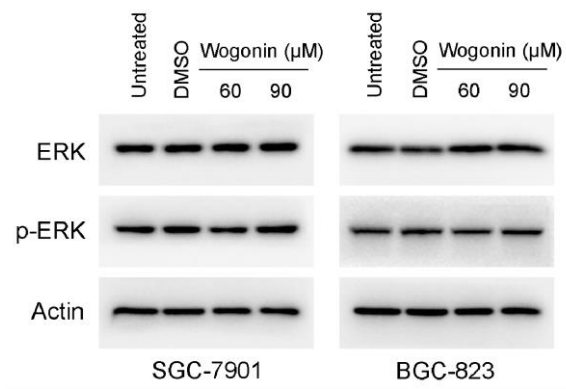


Figure S3. Levels of total ERK and p-ERK in SGC-7901 and BGC-823 cells treated with wogonin at different concentrations for 48 h were analyzed by western blot.

Table S1. Primers used for real-time PCR.

Name	Forward primer (5'→3')	Reverse primer (5'→3')
JAK1	CTTTGCCCTGTATGACGAGAAC	ACCTCATCCGGTAGTGGAGC
JAK2	TCTGGGGAGTATGTTGCAGAA	AGACATGGTTGGGTGGATACC
DHRS2	CCTCTGGTAGGGAGCACTCT	CCAGCGCCACTACTGGATTA
INPP5D	GCGTGCTGTATCGGAATTGC	TGGTGAAGAACCTCATGGAGAC
TMEM229B	CATCTACACGCTCTGGACCTA	GAAGTCAAAGTCGAACTGGGAG
DNAH6	ATTCATCGGCCCTATGTTGAGG	CTTCTTCTCGGTCGTGAAAAGT
FOXN1	CTGCTCGTCATTTGTGTCCGA	AGCCAAAGCCAGGATACTTGT
SCARA5	AAAGCTATGTACCTACACACCGT	CCGCCGTTTGTGACATGGA
MUC16	CCAGTCCTACATCTTCGGTTGT	AGGGTAGTTCCTAGAGGGAGTT
BMF	GAGCCATCTCAGTGTGTGGAG	GCCAGCATTGCCATAAAAGAGTC
CA9	GGATCTACCTACTGTTGAGGCT	CATAGCGCCAATGACTCTGGT

Table S2. Antibodies used in Western Blot.

Name	Corportation
anti-STAT3	Cell Signaling Technology
anti-p-STAT3(Tyr705)	Cell Signaling Technology
anti-AKT	Cell Signaling Technology
anti-p-AKT	Cell Signaling Technology
anti-ERK	Santa Cruz Biotechnology
anti-p-ERK	Cell Signaling Technology
JAK1	Santa Cruz Biotechnology
JAK2	Santa Cruz Biotechnology
anti-JAK1	Santa Cruz Biotechnology
anti-JAK2	Santa Cruz Biotechnology
anti-CDK2	Abcam
anti-CDK4	Santa Cruz Biotechnology
anti-CDK6	Santa Cruz Biotechnology
anti-Cyclin B1	Santa Cruz Biotechnology
anti-Cyclin E	Santa Cruz Biotechnology
anti-Cyclin D1	Santa Cruz Biotechnology
Anti-P-RB	Santa Cruz Biotechnology
anti- β -actin	Proteintech
anti-Cleaved caspase-3	Cell Signaling Technology
PARP	Cell Signaling Technology
anti-Cleaved PARP	Cell Signaling Technology
HRP-conjugated secondary antibodies (goat anti-mouse IgG-HRP,	Santa Cruz Biotechnology
HRP-conjugated secondary antibodies (goat anti-rabbit IgG-HRP)	Santa Cruz Biotechnology,