



Figure S2. Wogonin is a naturally occurring inhibitor of CDK7 and CDK9.

A. Wogonin down-regulates Mcl-1 mRNA expression in malignant cells. HTLV-1-SP cells were treated with 50 μM Wogonin for indicated time periods. Mcl-1 mRNA expression levels were examined by real-time PCR. Means ± SD are shown. Data are representative of three independent experiments performed in triplicates. B. Wogonin suppresses RNA synthesis in malignant cells. CEM cells were treated with different concentrations of Wogonin for 2 h as indicated. RNA synthesis was measured by [³H]-uridine-incorporation. Means ± SD are shown. Data are representative of two independent experiments performed in triplicates. C. Wogonin inhibits CDK7 and CDK9 kinase activity determined by Western blot analysis. CDK7/cyclinH/MAT1 or CDK9/cyclinT was incubated with recombinant substrate RBER-CHKtide in the presence of different concentrations of Wogonin. The amount of phosphorylated substrate was determined by Western blot using phospho-specific antibodies. Results are representative of two independent experiments.