Figure S1. CIP shows less toxicity in normal bone marrow cells. Acute myeloid leukemiacell lines (HL-60 and U937) or normal murine bone marrow cells from C57BL/6J mice were exposed to CIP for 24 h. The cell viability was measured using an MTS assay. *P<0.05; CIP, Corydalis incisa (Thumb.) Pers.

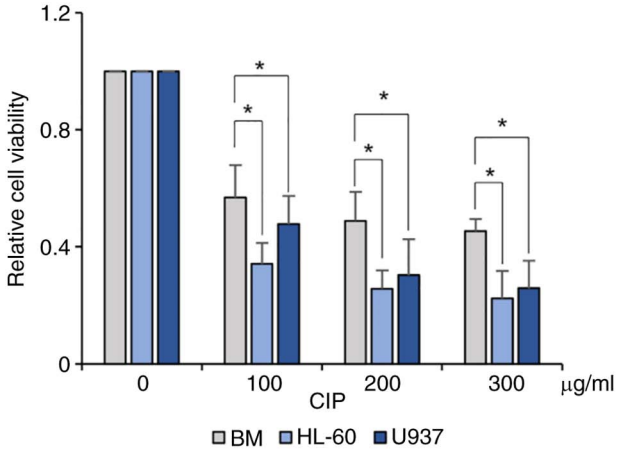

Figure S2. HL-60-CIP cells retain resistance to CIP for 3 weeks in the absence of CIP. HL-60-DMSO and HL-60-CIP cells were treated with 20 μg/ml CIP for 96 h. Viable cell number was measured using trypan blue exclusion assay. *P<0.05; CIP, Corydalis incisa (thumb.) pers.

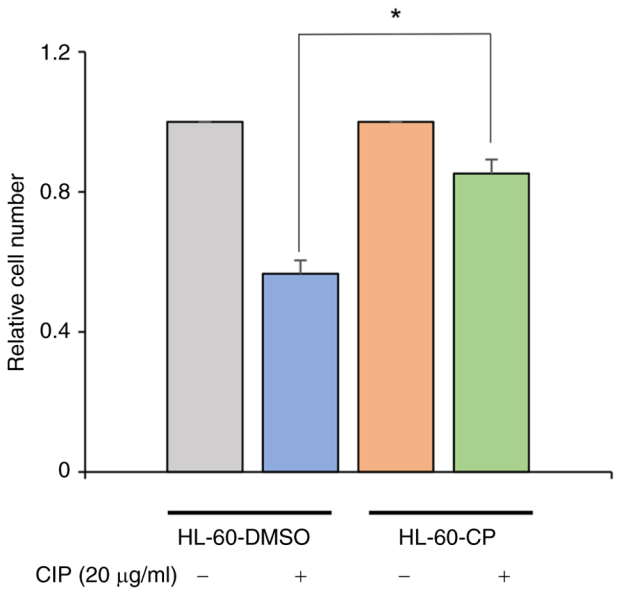

Figure S3. Peltatoside does not affect cell proliferation in acute myeloid leukemia. (A) U937 and THP-1 cells were treated with peltatoside. MTS assay was conducted to measure cell viability. (B) U937 and THP-1 cell proliferation was evaluated using trypan blue exclusion assays.

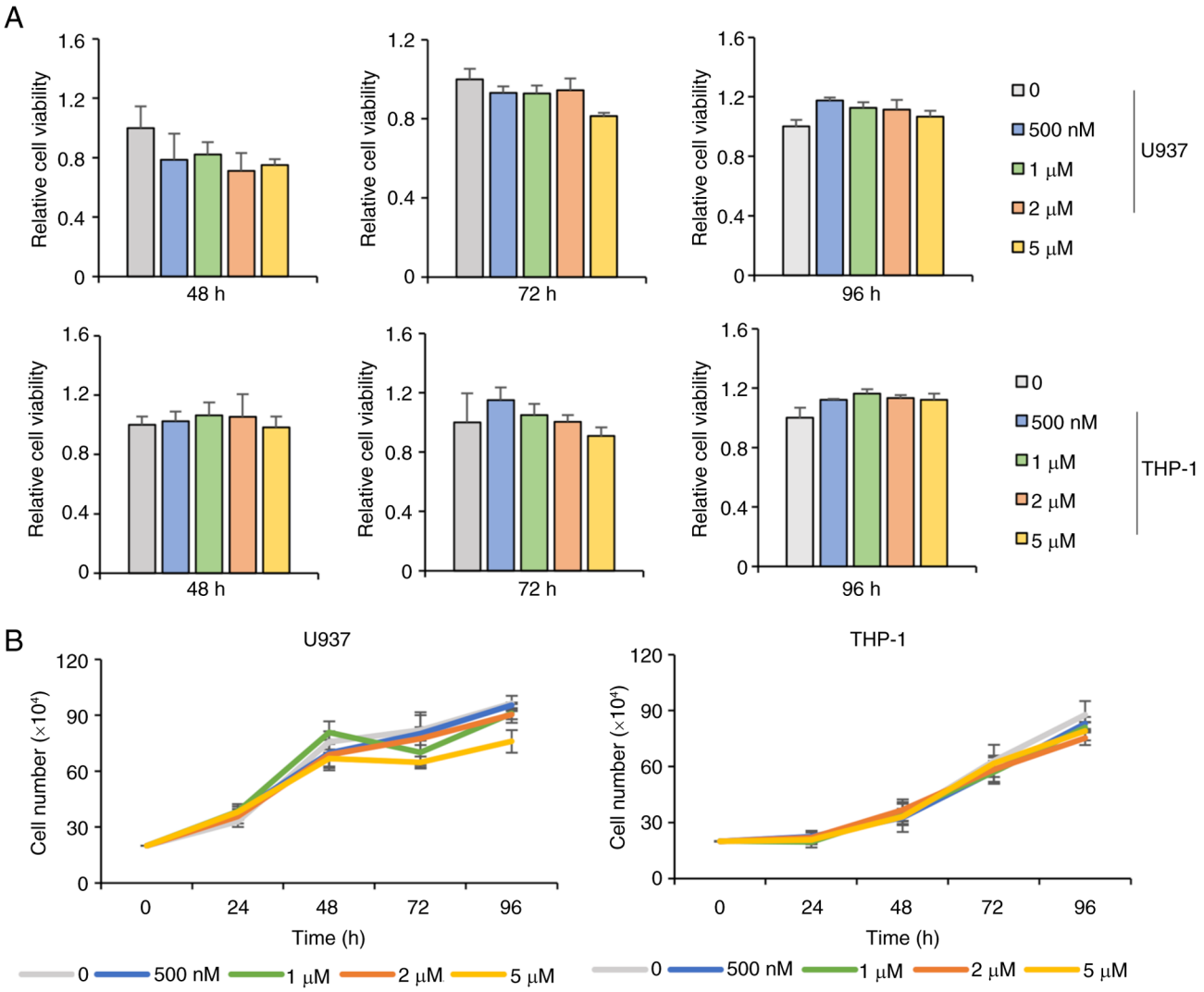

Figure S4. Norchelerythrine inhibits cell viability in samples from patients with acute myeloid leukemia. *P<0.05; Con, Control; Nor, norchelerythrine.

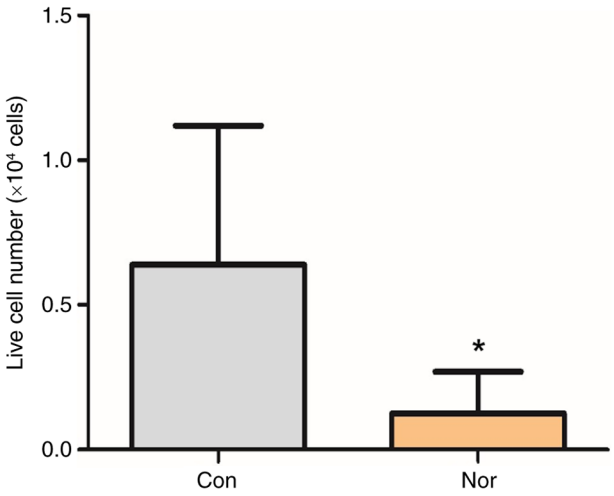

Figure S5. Norchelerythrine does not affect normal hematopoiesis in mice. Bone marrow cells were isolated from C57BL/6J mice and treated with 5 μM norchelerythrine for 96 h. Flow cytometry was performed to evaluate the populations of myeloid lineage cells ($CD45^+CD11b^+$), granulocytes ($CD11b^+Ly\text{-}6G^+$) and monocytes ($CD11b^+CD14^+$). Con, Control; Nor, norchelerythrine; Ly-6G, lymphocyte antigen 6 complex locus G6D; N.S, not significant.

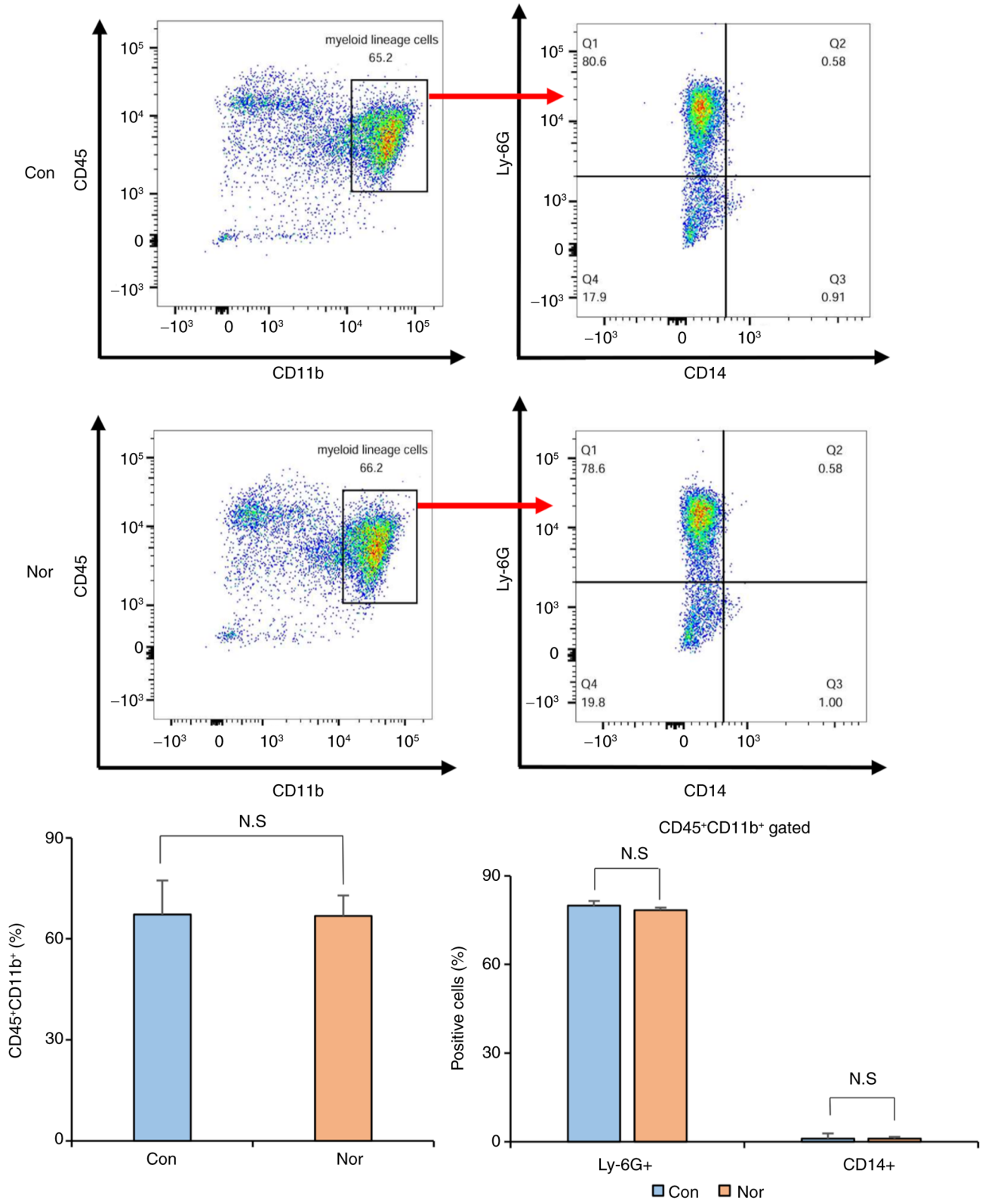

Figure S6. Effect of *Corydalis speciosa* Maxim. extract in acute myeloid leukemia cell lines. (A) HL-60 and U937 cells were exposed to *Corydalis speciosa* Maxim. extract (20 μg/ml) for 96 h. The CD11b expression was detected by flow cytometry. (B) HL-60 cells were treated with *Corydalis speciosa* Maxim. extract (20 μg/ml). MTS assay was conducted to measure cell viability. (C) Apoptosis rate was measured by trypan blue stain. *P<0.05; Con, control.

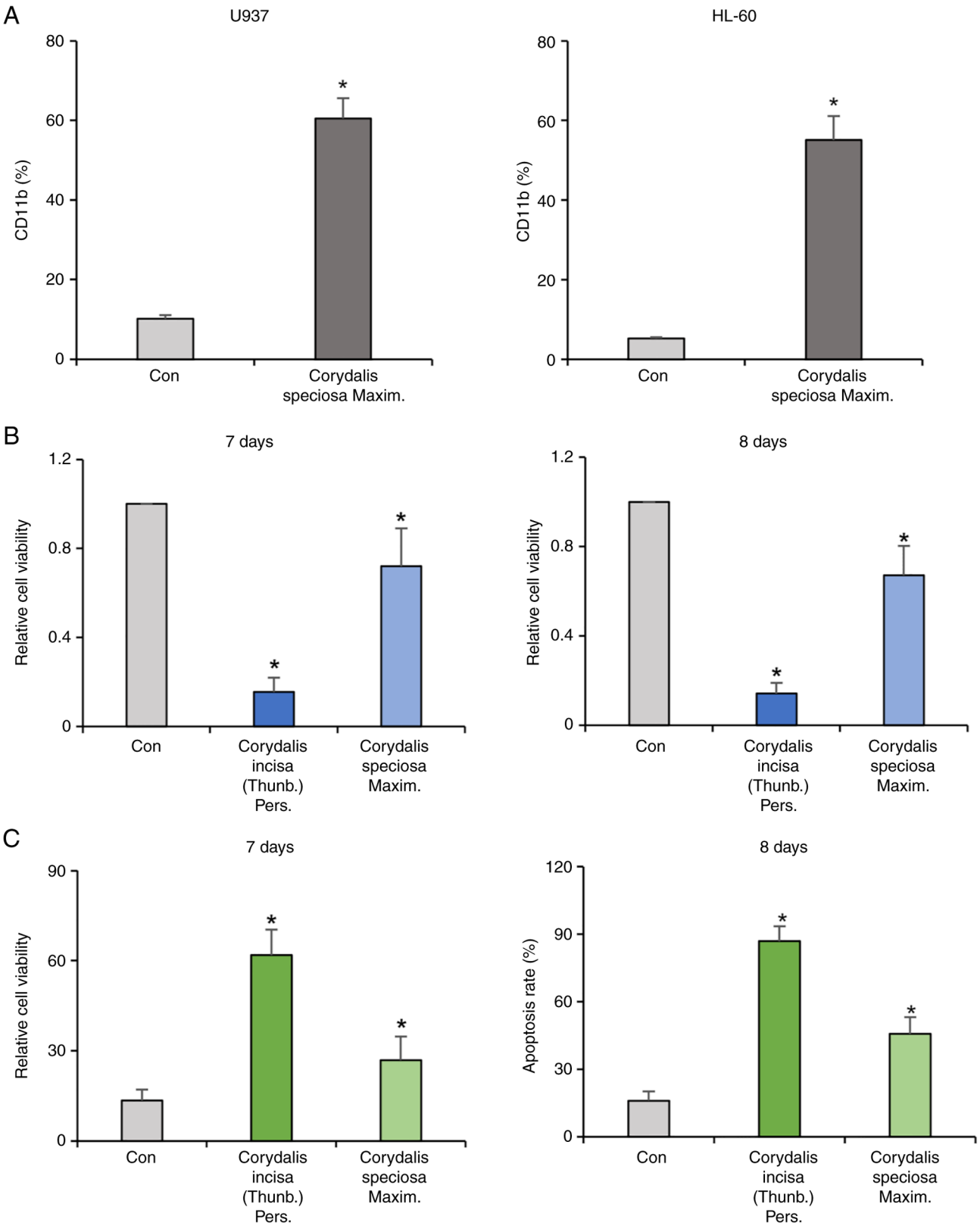

Figure S7. Ultra-performance liquid chromatography-quadrupole time-of-flight mass spectrometry of *Corydalis speciosa* Maxim. extract. AU, arbitrary unit.