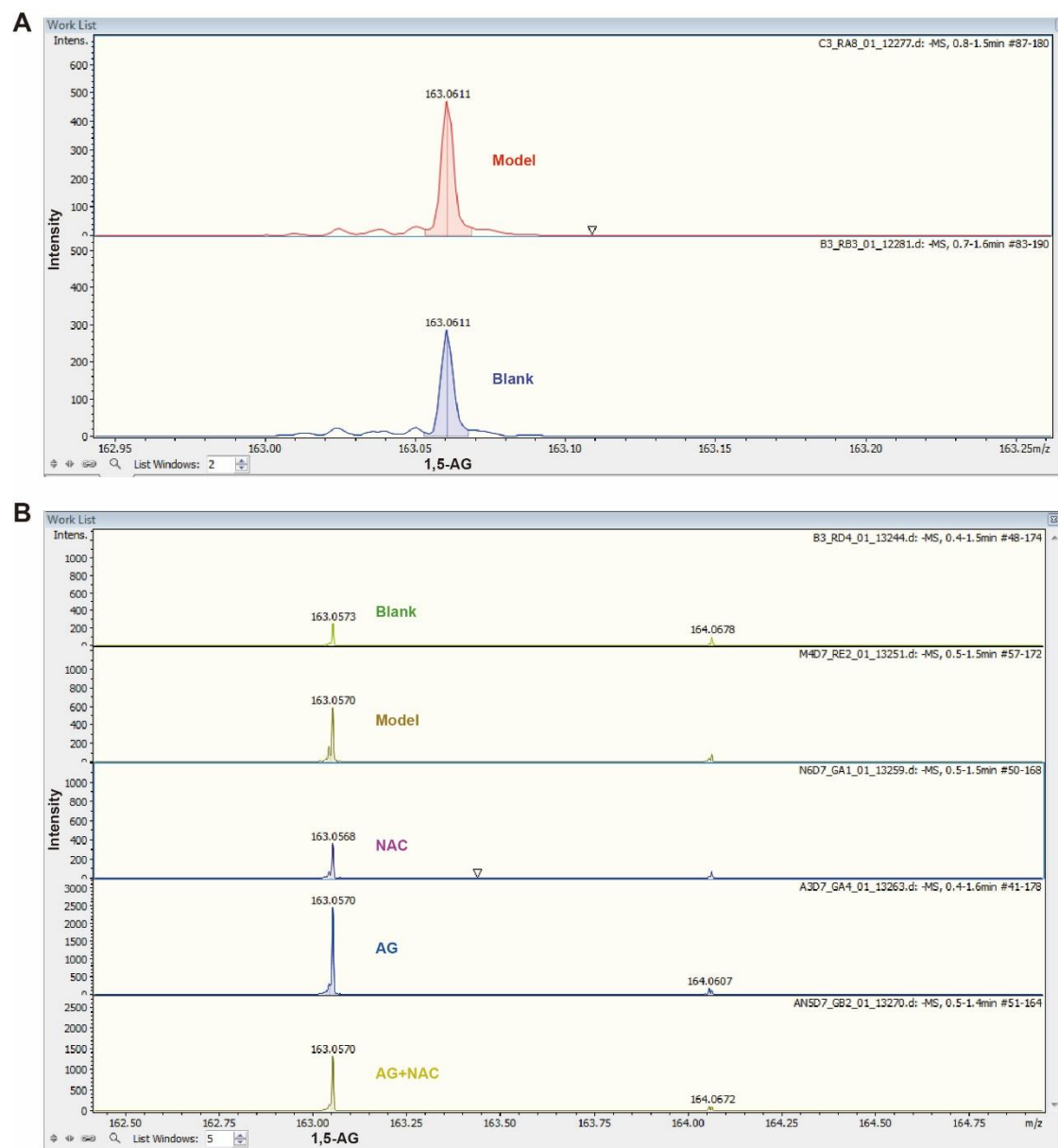
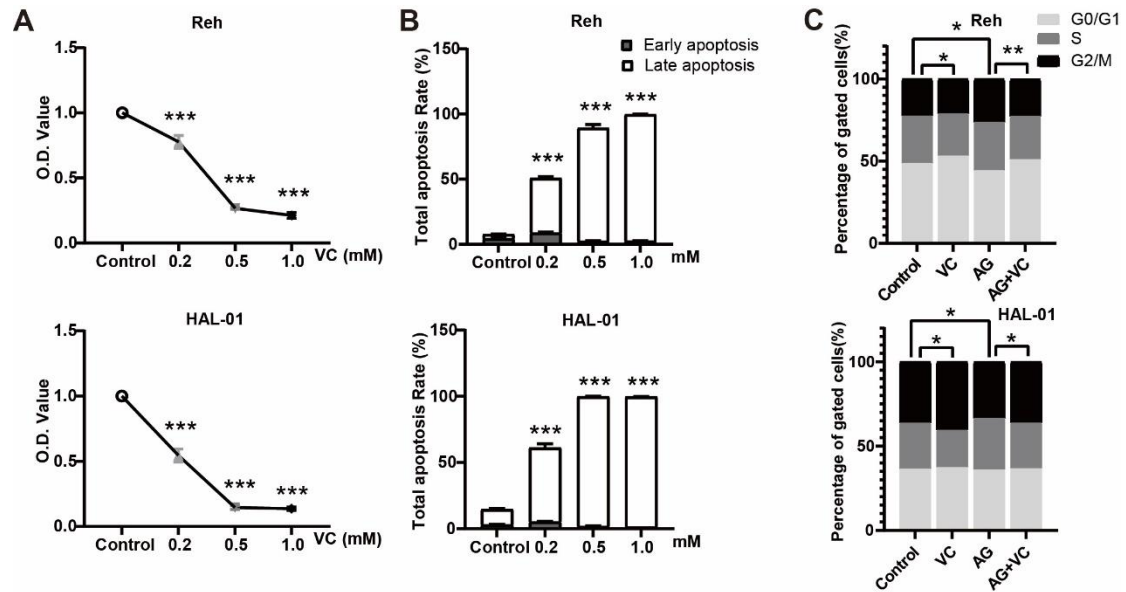


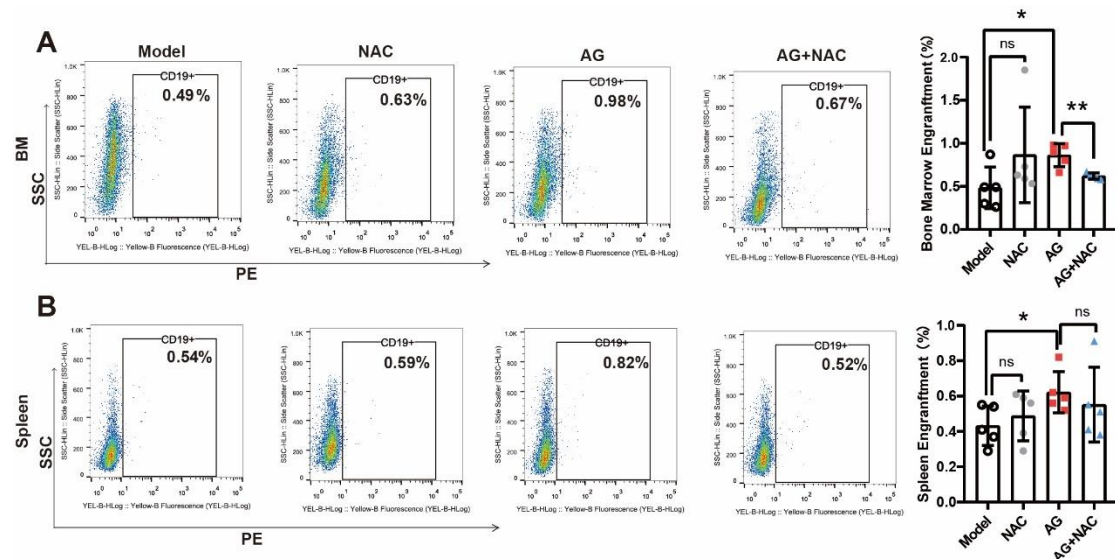
Additional file 1. Supplementary data for some experiments.



FigS1. Identification of 1,5-AG metabolite by liquid chromatography and mass spectrometry (LC-MS).



FigS2. Effects of different concentrations of vitamin C on pre-B ALL cell viability (A) and apoptosis (B). 0.2 mM vitamin C was chosen as the intervention concentration. (C) Effects of 1,5-AG with 0.2 mM Vitamin C on cell cycle. Data are represented as mean $\pm$ SD; * p < 0.05, ** p < 0.01, *** p < 0.001.



FigS3. The infiltration of leukemia cells in BM (A) and spleen (B) for different groups on day 7 was analyzed by flow cytometry. Data were shown as mean $\pm$ SD (n = 5/group); ns ($p \geq 0.05$); * p < 0.05; ** p < 0.01.

Table S1. Basic clinical characteristics of the patients

	Pre-B ALL	Healthy donor
Age (months), median	48	42
Gender, male/female	17/10	18/9
Leucocyte count ($\times 10^9/L$), $<50/\geq 50$	20/7	--