

Figure S1. Regulation of the expression of Helios in umbilical cord blood Tregs on day 14 of culture. (A) Information of the lentiviral vectors of shRNA-Helios. (B) Transduction efficiency of shRNA-Helios was evaluated by flow cytometry. (C) Proportion of Helios<sup>+</sup> cells among CD4<sup>+</sup>CD25<sup>+</sup> Tregs on day 14 of the culture period after shRNA-Helios transduction. (\*\*\*)*P*<0.0005). Tregs, regulatory T cells; shRNA, short hairpin RNA.

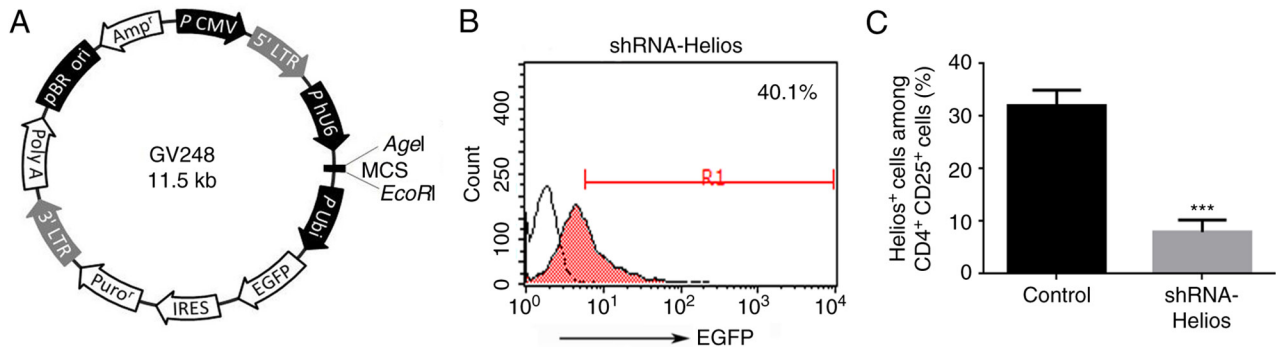


Figure S2. Effects of Helios on body weights and organ indices of acute lymphoblastic leukemia mice. (A) Changes of mouse weights in the blank, model, Helios<sup>low</sup> and Helios<sup>high</sup> groups over the course of 42 days. (B) Liver, spleen and kidney indices in blank, model, Helios<sup>low</sup> and Helios<sup>high</sup> groups. (\*\*P<0.0005, \*\*P<0.005, \*P<0.05).

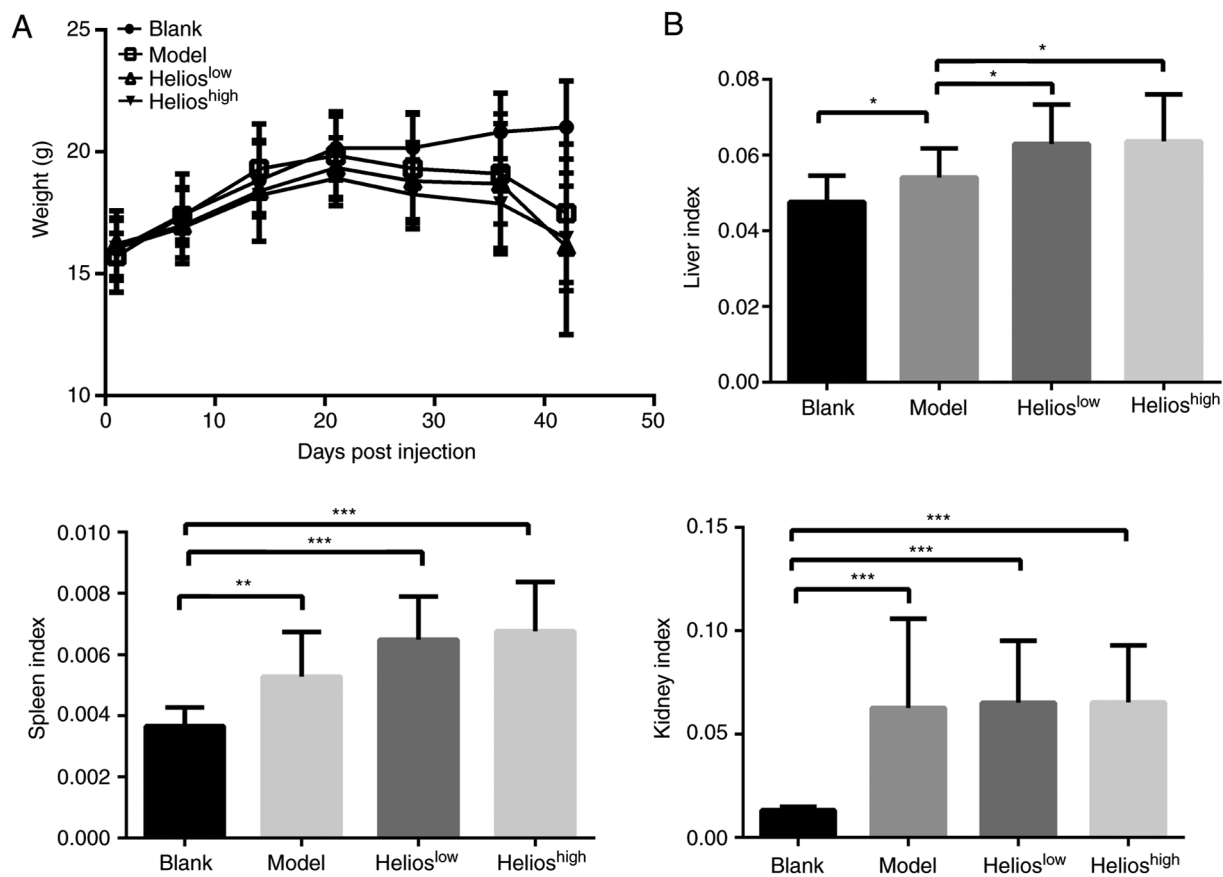


Table SI. Primers used in reverse transcription-quantitative polymerase chain reaction analysis.

Gene ID	Primer (5'-3')	Length (bp)
GAPDH	Forward primer TCTCTGCTCCTCCCTGTTCT	20
	Reverse primer ATCCGTTACACCGACCTTC	20
TGF- $\beta$ 1	Forward primer CTCCCGTGGCTTCTAGTGC	19
	Reverse primer GCCTTAGTTTGGACAGGATCTG	22
IL-10	Forward primer GCTCTTGCACTACCAAAGCC	20
	Reverse primer CTGCTGATCCTCATGCCAGT	20
CXCL6	Forward primer GAGCTGCGTTGTGTTTGCTTA	21
	Reverse primer GTTTAGCTATGACTTCCACCGT	22
CCL22	Forward primer GCTGTGGCAATTCAGACCTC	20
	Reverse primer TGACGGATGTAGTCCTGGCA	20
CCL28	Forward primer CAAGCAGGGCTCACACTCAT	20
	Reverse primer GGCCATGGGAAGTATGGCTT	20
Neuropilin 1	Forward primer GGCACAGGTGATGACTTCCA	20
	Reverse primer ACCGTATGTCGGGAACTCTG	20
IL17a	Forward primer GGAGAGCTTCATCTGTGTCTCTG	23
	Reverse primer TTGGCCTCAGTGTTTGGACA	20
IFN- $\gamma$	Forward primer CACCCTAAAGTGGAGCAGCC	20
	Reverse primer CGCCTCGTCTTTTGTTCGAT	20

TGF- $\beta$ 1, transforming growth factor- $\beta$ 1; IL, interleukin; CXCL, C-X-C motif chemokine; LIX, lipopolysaccharide-induced CXC chemokine; CCL, CC-chemokine ligand; IFN- $\gamma$ , interferon- $\gamma$ .