Supplemental Figures



Fig. S1. Activation (CD69 expression) in Jurkat T cells transduced with the eGFP-P2A-CD5-CAR lentiviral vector correlates with eGFP expression in both CD5-CAR groups. Data above shows activation in Jurkat T cells transduced at a multiplicity of infection (MOI) of 2, four days post-transduction. Only GFP positive cells were activated, no activation is seen in the eGFP-negative Jurkat T cells.





Fig. S3. Transduced proviral vector copy number (VCN) in Jurkat T cells transduced with the eGFP-P2A-CD5-CAR lentiviral vector decreased over time. The decrease in VCN corresponded with a decrease in activation as measured by surface CD69 expression.









Fig. S7: Primary T cell CD5 and CD5-CAR expression measured by flow cytometry. CD5 expression in non-edited (A) and CD5-edited primary T cells (B). CD5-CAR expression measured by CD5-Fc binding in eGFP-positive non-edited (C) and CD5-edited primary T cells (D).





of CD5-CAR Fig. S9. Persistence expressing NK-92 cells in absence of IL-2. 10⁷ non-irradiated eGFP-P2A-CD5-scFv-CAR expressing NK-92 cells were injected into NSG mice. Mice were not given IL-2. Peripheral blood, bone marrow and spleen were evaluated for presence of CAR expressing NK-92 cells using eGFP and human CD45 expression. No evidence of CAR-NK-92 cells were by day 3. No evidence of seen engraftment in bone marrow was seen. No evidence of disease from NK-92 cells was seen seven weeks post injection.