



Thawing & Expanding CAR T-cells

OVERVIEW

CAR T-cells are available at 1×10^6 - 1×10^9 cells in frozen vials, and shipped on dry-ice. CAR-T cells are cryopreserved in the next-generation cryopreservation CS10 CryoStor medium (Sigma Aldrich, Catalog # C2874). All our cells are pathogen- and mycoplasma- free.

THAWING PROCEDURE

1. Thaw Control CAR T-cell samples quickly in a 37 °C water bath until all visible ice has melted. Thaw time for a 1 ml sample in a cryovial is 2-3 minutes. Cryovials should be cool to the touch when removed from the water bath.
2. Dilute cell/CryoStor mixture immediately with CAR-T cell culture medium (cat# PM-CAR2000). This can be performed in a single step. The dilution medium should be between 20–37 °C. A dilution ratio of 1:10 (sample: medium) or greater is recommended.
3. Plate cells appropriately according to the experimental conditions of assays.
4. Culture the control lentivirus CAR T-cells or use immediately.

(Note: T-cells that are used immediately after thawing have the highest level of viability.)

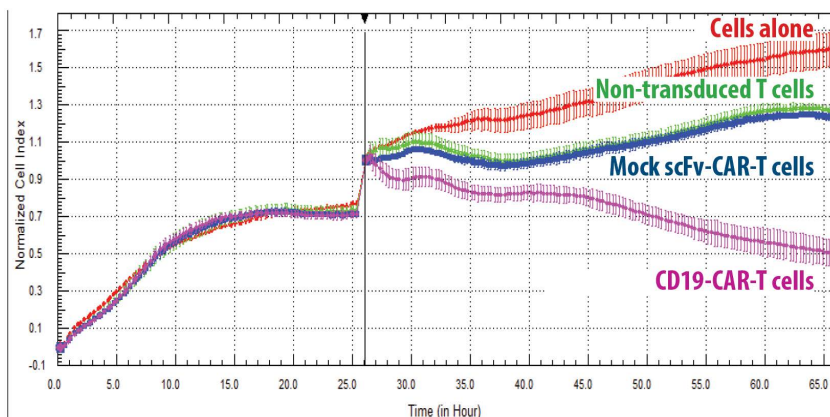


Table 1. Mock scFv (blue color) has same cytotoxic activity as non-transduced T cells (green color).

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