AimT conv

T cell activator   ATC01-0050H

Artificial cells optimised for T cell activation

Why use Aim-Tconv?

Streamline your workflow

◇ Works directly with PBMC, no isolation required

◇ No bead removeal steps

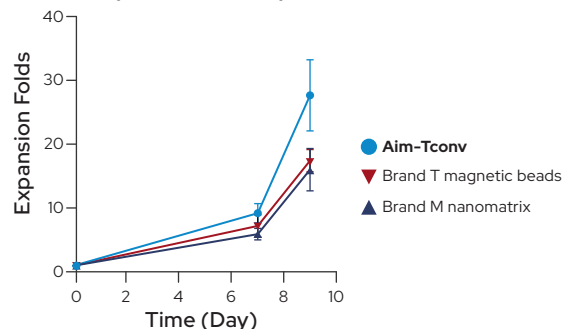◇ Self-degrades at programmed timepoints
or add enzyme on-demand

Superior T cell expansion

◇ Higher expansion folds vs magnetic beads/nanomatrix

◇ Balanced memory subtype (Tcm/Tem), better persistence

◇ Faster exhaustion recovery

◇ Cells remain re-stimulation capable

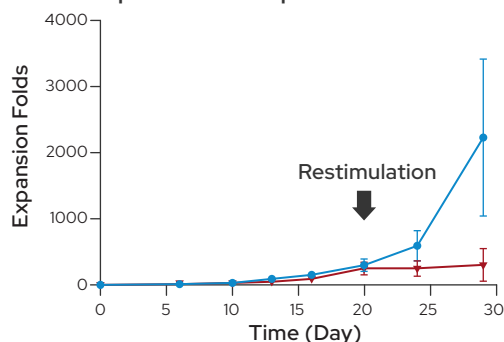◇ Equivalent CAR-T killing with reduced IFN-g production

Biomimetic design

◇ Fluid lipid membrane mimics natural APCs

◇ Gentler activation signals reduces exhaustion

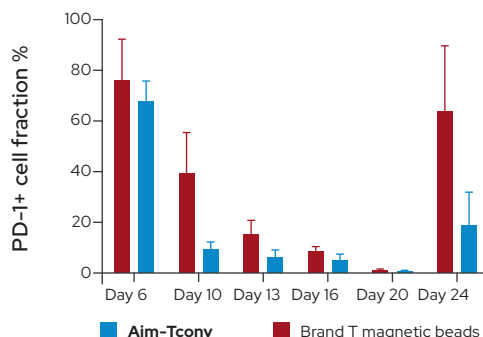◇ 100% chemically defined, animal-free formulation
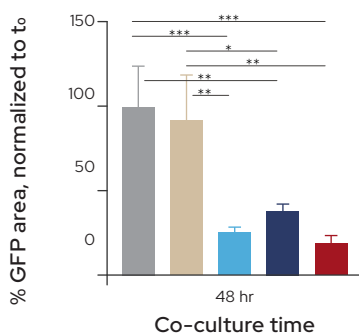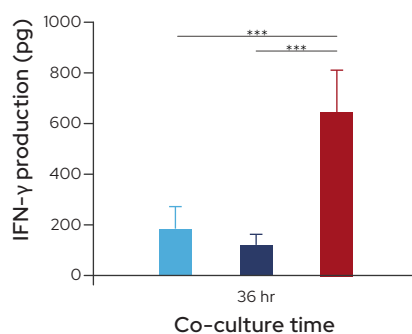
T cell proliferation profile

- Aim-Tconv
- Brand T magnetic beads
- Brand M nanomatrix

T cell proliferation post-restimulation

Restimulation

T cell exhaustion profile

- Aim-Tconv
- Brand T magnetic beads

CAR-T cell-mediated tumour killing

48 hr
Co-culture time

IFN-γ expression in CAR-T cells

36 hr
Co-culture time

T cell memory subtypes

- T_{eff} CD45RA+ CD62L-
- T_{EM} CD45RA- CD62L-
- T_{CM} CD45RA- CD62L+
- T_{SCM} CD45RA+ CD62L+

- αCD19CAR-T transduced w/ Aim-Tconv
- αCD19CAR-T transduced w/ Brand T beads
- αCD19CAR-T transduced w/Brand M nanomatrix
- Untransduced T cell
- GFP-Raji (target cell)

Allegrow   AimGel™   Activate Immune Cells as Nature Intended