Allogeneic CD4+ Memory Th1-like T Cells/Microparticle-bound Anti-CD3/anti-CD28

National Cancer Institute

Source

National Cancer Institute. Allogeneic CD4+ Memory Th1-like T Cells/Microparticle-bound Anti-CD3/anti-CD28. NCI Thesaurus. Code C71540.

A preparation consisting of allogeneic, differentiated Th1-like T cells bound to T cell-stimulating monoclonal antibodies with potential antitumor activity. More specifically, allogeneic CD4+ memory Th1-like T cells/microparticle-bound anti-CD3/anti-CD28 are composed of a proprietary preparation of mismatched, allogeneic differentiated CD4+ memory Th1-like T cells bound to paramagnetic, epoxy-covered 4.5 micron microparticles with covalently bound anti-CD3/anti-CD28 monoclonal antibodies at a 2:1 bead:cell ratio. The CD4+ memory Th1-like T cells are derived from precursors found in the circulation of a normal donor. Stimulated by the microparticle-bound monoclonal antibodies, the infused T cells produce pro-inflammatory, anti-tumor cytokines such as like IFN-gamma, TNF-beta, and IL-2, disabling tumor immune avoidance mechanisms and stimulating the host immune system to both reject the infused T cells and kill tumor cells.