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Autologous Anti-CD19 CAR-CD3zeta-4-1BB-expressing T-cells

National Cancer Institute

Source

National Cancer Institute. *Autologous Anti-CD19 CAR-CD3zeta-4-1BB-expressing T-cells*.
NCI Thesaurus. Code C150671.

A preparation of autologous T-lymphocytes that are engineered to express a chimeric antigen receptor (CAR) composed of an anti-cluster of differentiation 19 (CD19) single chain variable fragment (scFv) linked to the intracellular signaling domains of 4-1BB (CD137) and the zeta chain of the TCR/CD3 complex (TCRzeta; CD247; CD3zeta), with potential immunomodulating and antineoplastic activities. Upon administration of the autologous anti-CD19 CAR-CD3zeta-4-1BB-expressing T-cells, these cells target, bind to and induce selective toxicity in CD19-expressing tumor cells. CD19 antigen is a B-cell specific cell surface antigen expressed in all B-cell lineage malignancies.