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# Autologous Anti-CD19 CAR-CD3zeta-4-1BB-expressing T-cells PZ01

National Cancer Institute

## Source

National Cancer Institute. *Autologous Anti-CD19 CAR-CD3zeta-4-1BB-expressing T-cells PZ01*. NCI Thesaurus. Code C153118.

A preparation of autologous T-lymphocytes that have been transduced with a lentiviral vector to express a chimeric antigen receptor (CAR) consisting of a single chain variable fragment (scFv) of anti-CD19, coupled to the costimulatory domains of 4-1BB (CD137) and the zeta chain of the human T-cell receptor (CD3zeta), with potential immunostimulating and antineoplastic activities. Upon transfusion, the autologous anti-CD19 CAR-CD3zeta-4-1BB-expressing T-cells PZ01 target, bind to, and induce selective toxicity in CD19-expressing B cells. The CD19 antigen is a B-cell-specific cell surface antigen expressed in all B-cell lineage malignancies.