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Autologous Mesothelin-specific CAR-T Cells

National Cancer Institute

Source

National Cancer Institute. *Autologous Mesothelin-specific CAR-T Cells*. NCI Thesaurus. Code C148160.

Genetically modified, autologous T-lymphocytes transduced with a gene encoding a chimeric antigen receptor (CAR) specific for the human tumor-associated antigen (TAA) mesothelin, with potential immunomodulating and antineoplastic activities. After isolation, transduction, expansion in culture, and reintroduction into the patient, the autologous mesothelin-specific CAR-T cells specifically target and kill mesothelin-expressing tumor cells. Mesothelin, a cell surface glycoprotein involved in cell adhesion, is overexpressed in a variety of cancer cell types.