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Allogeneic T-lymphocytes Expressing NY-ESO-1-C259-specific TCR

National Cancer Institute

Source

National Cancer Institute. *Allogeneic T-lymphocytes Expressing NY-ESO-1-C259-specific TCR*. NCI Thesaurus. Code C150511.

Genetically engineered human allogeneic T-lymphocytes that are transduced with a retroviral vector encoding a T-cell receptor (TCR) specific for the cancer/testis antigen NY-ESO-1, with potential antineoplastic activity. Upon isolation, transduction, expansion ex vivo and introduction into the patient, the allogeneic T-lymphocytes expressing NY-ESO-1-C259-specific TCR specifically target and bind to NY-ESO-1-overexpressing tumor cells. This may result in the specific cytotoxic T-lymphocyte (CTL) killing of NY-ESO-1-positive cancer cells. NY-ESO-1, a tumor-associated antigen (TAA), is expressed in normal testis and on the surface of various tumor cell types.