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NY-ESO-1-specific TCR Gene-transduced T Lymphocytes TBI-1301

National Cancer Institute

Source

National Cancer Institute. *NY-ESO-1-specific TCR Gene-transduced T Lymphocytes TBI-1301*. NCI Thesaurus. Code C120557.

Human peripheral blood T-lymphocytes transduced with a retroviral vector encoding a T-cell receptor (TCR) specific for the cancer-testis antigen NY-ESO-1, with potential antineoplastic activity. Following leukapheresis, isolation of lymphocytes, expansion ex vivo, transduction, and introduction into the patient, the NY-ESO-1-specific TCR gene-transduced T lymphocytes TBI-1301 bind to NY-ESO-1 on tumor cells. This may result in cytotoxic T-lymphocyte (CTL)-mediated elimination of NY-ESO-1-positive cancer cells. NY-ESO-1, a tumor-associated antigen (TAA), is found in normal testis and on the surface of various tumor cell types.