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## Autologous NY-ESO-1 TCR-targeted T Lymphocytes

National Cancer Institute

## Source

National Cancer Institute. <u>Autologous NY-ESO-1 TCR-targeted T Lymphocytes</u>. NCI Thesaurus. Code C148150.

A preparation of human autologous T-lymphocytes that are transduced with a gene encoding a T-cell receptor (TCR) specific for the cancer-testis antigen NY-ESO-1, with potential immunostimulating and antineoplastic activities. Upon isolation, transduction, expansion ex vivo, and reintroduction into the patient, the anti-NY-ESO-1 TCR-transduced autologous T-cells recognize and bind to NY-ESO-1-overexpressing tumor cells. This may result in a specific cytotoxic T-lymphocyte (CTL)-mediated killing of NY-ESO-1-positive tumor cells. NY-ESO-1, a tumor-associated antigen (TAA), is found in normal testis and on the surface of various tumor cell types, and is not, or is minimally, expressed in normal, healthy cells.

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