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NY-ESO-1 TCR Retroviral Vectortransduced Autologous PBMCs

National Cancer Institute

Source

National Cancer Institute. <u>NY-ESO-1 TCR Retroviral Vector-transduced Autologous</u>
<u>PBMCs</u>, NCI Thesaurus. Code C146939.

Human autologous peripheral blood mononuclear cells (PBMCs) transduced with a retroviral vector (RV) 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 NY-ESO-1 TCR RV-transduced autologous PBMCs 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.

Qeios ID: 26SD9R · https://doi.org/10.32388/26SD9R