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# TIL 1383I T Cell Receptor-Transduced Autologous T Cells

National Cancer Institute

## Source

National Cancer Institute. *TIL 1383I T Cell Receptor-Transduced Autologous T Cells*. NCI Thesaurus. Code C101787.

Autologous peripheral blood lymphocytes-derived T cells transduced with a retroviral encoding TIL 1383I, a T cell receptor (TCR) specific for melanoma antigen tyrosinase, with potential immunostimulating and antineoplastic activity. After transduction, expansion in culture, and reintroduction into the patient, TIL 1383I TCR-transduced autologous T cells bind to tumor cells expressing tyrosinase, which may induce cytokine expression, activation and proliferation of T-cells, and a specific cytotoxic T-lymphocyte (CTL) response against tyrosinase-expressing tumor cells. TIL 1383I TCR originated from a melanoma patient's CD4+ tumor-infiltrating lymphocytes and is reactive against a class I MHC (HLA-A2)-restricted epitope (368-376) of tyrosinase.