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TGFbDNRII-transduced Autologous Tumor Infiltrating Lymphocytes

National Cancer Institute

Source

National Cancer Institute. *TGFbDNRII-transduced Autologous Tumor Infiltrating Lymphocytes*. NCI Thesaurus. Code C111992.

A preparation of tumor infiltrating lymphocytes (TILs) that are transduced with a retroviral vector encoding a gene for a dominant-negative form of the transforming growth factor beta (TGFb) receptor, TGFbDNRII, with potential immunomodulating activity. Upon administration, the TGFbDNRII-transduced autologous TILs recognize and kill tumor cells. The expression of TGFbDNRII allows for the TILs to be resistant to TGFb-mediated inhibition of T cell proliferation and activation, which allows optimal TIL activity. The immunosuppressant TGFb is produced by tumor cells and plays a key role in the repression of the immune system.