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Autologous CD8+ SLC45A2-specific T Lymphocytes

National Cancer Institute

Source

National Cancer Institute. <u>Autologous CD8+ SLC45A2-specific T Lymphocytes</u>. NCI Thesaurus. Code C153083.

A preparation of autologous CD8+ T lymphocytes targeting SLC45A2, a melanomaassociated antigen, with potential immunomodulating and antineoplastic activities. Following peripheral blood mononuclear cell (PBMC) collection and ex vivo expansion of SLC45A2-specific cytotoxic T-lymphocytes (CTLs), the autologous CD8+ SLC45A2specific CTLs are re-infused into the patient, where they target and lyse SLC45A2expressing tumor cells. While SLC45A2 is expressed by approximately 80% of cutaneous melanomas, its expression is limited in mature normal melanocytes, allowing high tumor selectivity and reduced potential for autoimmune toxicity.