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LMP1-specific Chimeric Antigen Receptor-expressing T Lymphocytes

National Cancer Institute

Source

National Cancer Institute. *LMP1-specific Chimeric Antigen Receptor-expressing T Lymphocytes*. NCI Thesaurus. Code C136986.

A preparation of cytotoxic T-lymphocytes (CTL) transfected with a chimeric antigen receptor (CAR) specifically recognizing the Epstein-Barr virus (EBV) latent membrane protein 1 (LMP1; LMP-1), with potential antineoplastic activity. Upon administration of the LMP1-specific CAR-expressing T lymphocytes to patients with LMP1-positive tumors, the CTLs specifically target and lyse tumor cells expressing LMP1, thereby inhibiting tumor cell proliferation. The tumor-associated antigen (TAA) LMP1 is expressed in various malignancies, including nasopharyngeal cancer and EBV-positive Hodgkin lymphoma.