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# Autologous c-Met/PD-L1-specific CAR T-cells

National Cancer Institute

## Source

National Cancer Institute. *Autologous c-Met/PD-L1-specific CAR T-cells*. NCI Thesaurus. Code C162481.

A preparation of autologous T-lymphocytes that have been transduced with a lentiviral vector encoding a chimeric antigen receptor (CAR) specific for human hepatocyte growth factor receptor (HGFR or c-Met) and the immunosuppressive ligand, programmed cell death-1 ligand 1 (PD-L1; cluster of differentiation 274; CD274), with potential antineoplastic activities. Upon infusion, the autologous c-Met/PD-L1-specific CAR T-cells bind to and induce selective toxicity in c-Met- and PD-L1-expressing tumor cells. cMET, a receptor tyrosine kinase that is overexpressed or mutated in many tumor cell types, plays a key role in cancer cell growth, survival, angiogenesis, invasion, and metastasis. PD-L1 is also overexpressed by many human cancer cell types and plays a key role in the downregulation of the immune system and tumor evasion from host immunity.