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Adenovirus Encoding Tyrosinase/MART-1/MAGEA6-transduced Autologous Dendritic Cell Vaccine

National Cancer Institute

Source

National Cancer Institute. *Adenovirus Encoding Tyrosinase/MART-1/MAGEA6-transduced Autologous Dendritic Cell Vaccine*. NCI Thesaurus. Code C102753.

A cell-based cancer vaccine composed of autologous dendritic cells (DCs) transduced with a recombinant adenoviral vector encoding three full length human melanoma associated antigens (MAAs), tyrosinase, melan-A (MART-1) and the melanoma antigen A6 (MAGEA6), with potential antineoplastic activity. Upon intradermal administration, adenovirus encoding tyrosinase/MART-1/MAGEA6-transduced autologous DC vaccine may stimulate a cytotoxic T lymphocyte (CTL) response against tyrosinase/MART-1/MAGEA6-positive tumor cells, which may result in tumor cell death and decreased tumor growth. Tyrosinase, a melanoma-specific differentiation antigen, catalyzes the first step of melanin synthesis in melanocytes. Vaccination with multi-antigen modified DC may improve the efficacy of the DC immunotherapy.