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Anti-CTLA4 MoAb RNA/GITRL RNA-transfected Autologous Dendritic Cell Vaccine

National Cancer Institute

Source

National Cancer Institute. *Anti-CTLA4 MoAb RNA/GITRL RNA-transfected Autologous Dendritic Cell Vaccine*. NCI Thesaurus. Code C94218.

An autologous dendritic cell (DC) cancer vaccine with potential immunostimulatory activity. Anti-CTLA4 MoAb RNA/GITRL RNA-transfected DC vaccine is prepared by transfecting DCs with RNAs encoding humanized heavy and light chains of the anti-CTLA4 (cytotoxic T-Lymphocyte-Associated Antigen 4) monoclonal antibody and tumor necrosis factor (ligand) superfamily, member 18 (TNFSF18 or GITRL); expression of anti-CTLA4 blocks the inhibitory effect of CTLA4 on the activation of T-lymphocytes, while expression of GITRL modulates T lymphocyte survival in peripheral tissues. Co-vaccination of this vaccine with melanoma antigen specific vaccine may eliminate the adverse effects associated with systemic administration of immune modulators, while also enhancing vaccine-induced immune responses.