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# Autologous Lymphoma Immunoglobulin-derived scFv-chemokine DNA Vaccine

National Cancer Institute

## Source

National Cancer Institute. *Autologous Lymphoma Immunoglobulin-derived scFv-chemokine DNA Vaccine*. NCI Thesaurus. Code C116733.

A plasmid DNA vaccine encoding an autologous lymphoma-derived idiotype-targeting immunoglobulin (Ig)-derived single chain variable fragment (scFv) fused to the chemokine macrophage inflammatory protein 3 alpha (MIP3a), with potential immunostimulating and antineoplastic activities. Upon intramuscular vaccination, the autologous lymphoma immunoglobulin-derived scFv-chemokine DNA vaccine is taken up by antigen-presenting cells (APCs) and stimulates the immune system to exert a cytotoxic T-lymphocyte (CTL) response against the idiotype expressed on the surface of B lymphoma cells. MIP3a, also called chemokine (C-C motif) ligand 20 (CCL20), is a chemotactic cytokine able to enhance the immune response through binding to chemokine receptors expressed on APCs.