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TLR-Directed Cationic Lipid-DNA Complex JVRS-100

National Cancer Institute

Source

National Cancer Institute. *TLR-Directed Cationic Lipid-DNA Complex JVRS-100*. NCI Thesaurus. Code C82353.

A cationic lipid DNA complex (CLDC) consisting of DOTIM/cholesterol liposomes and plasmid DNA, containing immunostimulatory CpG and non-CpG motifs, with potential immunostimulating and antineoplastic activities. Upon systemic administration, TLR-directed cationic lipid-DNA complex JVRS-100 enters dendritic cells (DCs) and macrophages; immunostimulatory DNA binds to and activates Toll-like receptors (TLRs), which may result in the generation of anti-tumor natural killer (NK) cell and T-cell responses by the innate immune system. In addition, as a vaccine adjuvant, this agent may induce a strong cytotoxic T-lymphocyte (CTL) response to co-administered antigen.