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PSA-PAP/KLH-pulsed Autologous Dendritic Cell Vaccine

National Cancer Institute

Source

National Cancer Institute. *PSA-PAP/KLH-pulsed Autologous Dendritic Cell Vaccine*. NCI Thesaurus. Code C92573.

A cell-based cancer vaccine composed of autologous dendritic cells (DCs) pulsed with the prostate-specific tumor associated antigens (TAAs) prostate specific antigen (PSA) and prostate acid phosphatase (PAP), and conjugated to the immunostimulant Keyhole limpet hemocyanin (KLH), with potential immunostimulatory and antineoplastic activities. Upon administration, prostate cancer antigen/KLH-pulsed autologous dendritic cell vaccine may stimulate the immune system to mount anti-tumoral cytotoxic T lymphocyte (CTL) and antibody responses against prostate cancer cells expressing PSA and PAP, which may result in prostate cancer cell lysis. KLH is an immunogenic carrier and serves as an immunostimulant to improve antigenic immune recognition and T-cell responses and can be used to evaluate vaccine efficacy.