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## Liposomal HPV-16 E6/E7 Multipeptide Vaccine PDS0101

National Cancer Institute

## Source

National Cancer Institute. <u>Liposomal HPV-16 E6/E7 Multipeptide Vaccine PDS0101</u>. NCI Thesaurus. Code C111688.

A liposomal nanoparticle-based therapeutic vaccine composed of the cationic lipid R-DOTAP (R-enantiomer of 1,2-dioleoyl-3-trimethylammonium-propane chloride) encapsulating six human papillomavirus 16 (HPV-16) E6 and E7 peptides, with potential immunostimulating activity. Upon subcutaneous administration of the liposomal HPV-16 E6 and E7 multipeptide vaccine, the nanoparticles are taken up by antigen presenting cells (APCs), specifically dendritic cells (DCs), which may stimulate the immune system to induce a cytotoxic T-lymphocyte response (CTL) against HPV-16 E6 and E7-expressing tumor cells. HPV-16 E6 and E7 are oncoproteins that play a key role in the tumorigenesis of a variety of cancers.

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