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Attenuated Live Listeria Encoding HPV 16 E7 Vaccine ADXS11-001

National Cancer Institute

Source

National Cancer Institute. *Attenuated Live Listeria Encoding HPV 16 E7 Vaccine ADXS11-001*. NCI Thesaurus. Code C74595.

A cancer vaccine containing a live-attenuated strain of the bacterium *Listeria monocytogenes* (Lm) encoding human papillomavirus (HPV) type 16 E7 fused to a non-hemolytic listeriolysin O protein with potential immunostimulatory and antineoplastic activities. Upon vaccination, *Listeria* expresses the HPV 16 E7 antigen and activates the immune system to mount a cytotoxic T-lymphocyte (CTL) response against cancer cells expressing HPV 16 E7. This may result in tumor cell lysis. In addition, the *Listeria* vector itself may induce a potent immune response. HPV 16 E7, a cell surface glycoprotein and tumor associated antigen, is overexpressed in the majority of cervical cancer cells.