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Live-attenuated *Listeria monocytogenes*-encoding EGFRvIII-NY-ESO-1 Vaccine ADU-623

National Cancer Institute

Source

National Cancer Institute. *Live-attenuated Listeria monocytogenes-encoding EGFRvIII-NY-ESO-1 Vaccine ADU-623*. NCI Thesaurus. Code C111998.

A live-attenuated, double-deleted strain of the Gram-positive bacterium *Listeria monocytogenes* (Lm) encoding a mutant form of the tumor associated antigens, epidermal growth factor receptor (EGFRvIII) and the cancer/testis antigen NY-ESO-1, with potential immunostimulatory and antineoplastic activities. Upon intravenous administration, live-attenuated *Listeria monocytogenes* encoding EGFRvIII-NY-ESO-1 vaccine targets dendritic cells and expresses EGFRvIII and NY-ESO-1. This promotes both a potent innate immune response and an adaptive immune response involving the recruitment and activation of T lymphocytes against EGFRvIII and NY-ESO-1-expressing tumor cells, which results in tumor cell lysis.