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Ad5-survivin-transduced Autologous Dendritic Cell Vaccine

National Cancer Institute

Source

National Cancer Institute. *Ad5-survivin-transduced Autologous Dendritic Cell Vaccine*. NCI Thesaurus. Code C128860.

A cell-based cancer vaccine containing autologous dendritic cells (DCs) that are transduced with a replication-deficient adenovirus type 5 vector (Ad5) encoding a mutated form of the tumor-associated antigen (TAA) survivin, with potential immunostimulatory and antineoplastic activities. Upon administration, Ad5-survivin-transduced autologous DC vaccine may elicit an immune response against cancer cells expressing survivin by activating cytotoxic T-cells (CTLs). This leads to an induction of cell death in survivin-positive tumor cells. Survivin, a member of the inhibitor of apoptosis (IAP) family of proteins, may be upregulated in certain tumor cell types and plays a key role in tumor cell growth and survival.