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# Adenoviral Vector Ad5-CEA(6D) Vaccine

National Cancer Institute

## Source

National Cancer Institute. *Adenoviral Vector Ad5-CEA(6D) Vaccine*. NCI Thesaurus. Code C91373.

A replication-defective, E1- and E2b-deleted oncolytic adenoviral serotype 5 (Ad5) encoding an epitope of human carcinoembryonic antigen (CEA) with potential antineoplastic activity. Adenoviral vector Ad5-CEA(6D) vaccine expresses a highly immunogenic analogue of CEA [CAP1-(6D)]. Upon administration, this vaccine may induce both humoral and cellular immune responses against tumor cells expressing the CEA antigen, thereby resulting in the immune-mediated inhibition of tumor cell proliferation and tumor cell death. CEA, a tumor-associated antigen, is overexpressed in various tumor cell types. Deletion of early genes E1 and E2b in Ad5 potentially circumvent pre-existing anti-adenovirus immunity and is capable of inducing strong immune responses.