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# Adenovirus-mediated Human Interleukin-12

National Cancer Institute

## Source

National Cancer Institute. *Adenovirus-mediated Human Interleukin-12*. NCI Thesaurus. Code C37515.

A replication incompetent adenovirus encoding human pro-inflammatory cytokine interleukin-12 (IL-12) (Ad.hIL-12), with potential immunomodulating and antineoplastic activities. Upon intratumoral administration, the adenovirus selectively infects and replicates in tumor cells, which may result in tumor cell lysis. Synergistically, IL-12 expressed by the adenovirus may activate the immune system by promoting the activation of natural killer cells (NKs), inducing secretion of interferon-gamma and inducing cytotoxic T cell responses against tumor cells, which may result in immune-mediated tumor cell death and inhibition of tumor cell proliferation.