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# DNA Plasmid Encoding Interleukin-12 INO-9012

National Cancer Institute

## Source

National Cancer Institute. *DNA Plasmid Encoding Interleukin-12 INO-9012*. NCI Thesaurus. Code C116709.

A plasmid DNA vaccine encoding the human pro-inflammatory cytokine interleukin-12 (IL-12) with potential immunoactivating activity. Upon intramuscular delivery by electroporation of DNA plasmid encoding interleukin-12 INO-9012, IL-12 is translated in cells and activates the immune system by promoting the activation of natural killer cells (NK cells), inducing secretion of interferon-gamma and promoting cytotoxic T-cell responses against tumor cells. This may result in both immune-mediated tumor cell death and the inhibition of tumor cell proliferation.