

Open Peer Review on Qeios

## WT1/PSMA/hTERT-encoding Plasmid DNA INO-5401

National Cancer Institute

## Source

National Cancer Institute. <u>WT 1/PSMA/hT ERT-encoding Plasmid DNA INO-5401</u>. NCI Thesaurus. Code C148480.

A preparation composed of three separate DNA plasmids encoding the tumor-associated antigens (TAAs) Wilms tumor gene-1 (WT1), prostate-specific membrane antigen (PSMA) and human telomerase reverse transcriptase (hTERT), with potential immunostimulating and antineoplastic activites. Upon intramuscular delivery and electroporation of the WT1/PSMA/hTERT-encoding plasmid DNA INO-5401, the genes are translated into their respective proteins inside the cell. The expressed proteins activate the immune system and induce a cytotoxic T-lymphocyte (CTL)-mediated response against cells expressing the WT1, PSMA and hTERT antigens, causing tumor cell lysis. hTERT, WT1 and PSMA are upregulated in many cancer cell types.

Qeios ID: ECS57X · https://doi.org/10.32388/ECS57X