

[Open Peer Review on Qeios](#)

hTERT I540/R572Y/D988Y Multi-peptide Vaccine

National Cancer Institute

Source

National Cancer Institute. *hTERT I540/R572Y/D988Y Multi-peptide Vaccine*. NCI Thesaurus. Code C71761.

A peptide vaccine consisting of multiple epitopes derived from the human telomerase reverse transcriptase (hTERT), the catalytic subunit of human telomerase, with potential immunostimulating and antineoplastic activities. hTERT I540/R572Y/D988Y multi-peptide vaccine contains strongly antigenic peptide epitopes I540 (9-mer), R572Y (9-mer) and D988Y (10-mer). Vaccination with this agent may elicit a cytotoxic T cell (CTL) response against telomerase-expressing tumor cells. Directly linked to tumorigenesis, telomerase is expressed in the majority of human cancer cells but is infrequently expressed in normal cells.