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# Personalized Synthetic Long Peptide Vaccine

National Cancer Institute

## Source

National Cancer Institute. *Personalized Synthetic Long Peptide Vaccine*. NCI Thesaurus. Code C150471.

A personalized peptide vaccine consisting of synthetic long peptides (SLPs), ranging from 20-35 amino acids in size, that are derived from two or more of the patient's tumor-specific mutant antigens (TSMAs), with potential immunostimulatory and antitumor activities. A patient's tumor is isolated, TSMAs are identified, assessed and prioritized, and two or more TSMAs are selected to be further processed into SLPs. Upon administration, personalized SLP vaccine may stimulate the host immune system to mount a cytotoxic T-cell lymphocyte (CTL)-mediated immune response against the TSMAs expressed by the tumor cells.