

Open Peer Review on Qeios

HLA-A*2402-Restricted URLC10-TTK-VEGFR1-VEGFR2 Multipeptide Vaccine

National Cancer Institute

Source

National Cancer Institute. <u>HLA-A*2402-Restricted URLC10-TTK-VEGFR1-VEGFR2</u>

<u>Multipeptide Vaccine</u>. NCI Thesaurus. Code C74039.

A cancer vacine containing four HLA-A*2402-restricted peptide epitopes with potential immunostimulatory and antitumor activities. Peptide epitopes in this vaccine are derived from: URLC10 (up-regulated lung cancer 10), TTK (TTK protein kinase), and VEGFRS (vascular endothelial growth factor receptors) 1 and 2. Upon administration, URLC10-TTK-KOC1-VEGFR1-VEGFR2 multipeptide vaccine may stimulate a cytotoxic T lymphocyte (CTL) response against tumor cells expressing URLC10, TTK, VEGFR 1 and 2 peptides, resulting in cell lysis and decreased tumor growth. HLA-A*2402 is an MHC class I molecule that presents antigenic peptides to CD8+ T cells; epitope design restricted to epitopes that bind most efficiently to HLA-A*2402 may improve antigenic peptide immunogenicity.

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