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HLA-A*0201-Restricted VEGFR1 Peptide Vaccine

National Cancer Institute

Source

National Cancer Institute. *HLA-A*0201-Restricted VEGFR1 Peptide Vaccine*. NCI Thesaurus. Code C77878.

A cancer vaccine containing an HLA-A*0201-restricted vascular endothelial growth factor receptor 1 (VEGFR1) peptide (sequence: TLFWLLLT L) with potential immunostimulatory and antitumor activities. Upon administration, HLA-A*0201-restricted VEGFR1-derived peptide vaccine may stimulate a cytotoxic T lymphocyte (CTL) response against tumor cells expressing VEGFR1, resulting in tumor cell lysis and decreased tumor growth. HLA-A*0201 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*0201 may improve antigenic peptide immunogenicity.