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HLA-A*2402-Restricted CDCA1-A24-56 Peptide Vaccine

National Cancer Institute

Source

National Cancer Institute. *HLA-A*2402-Restricted CDCA1-A24-56 Peptide Vaccine*. NCI Thesaurus. Code C94223.

A cancer vaccine containing the HLA-A*2402-restricted peptide epitope derived from cell division associated gene 1 (CDCA1), with potential immunostimulatory and antitumor activities. Upon administration, HLA-A*2402-restricted CDCA1-A24-56 peptide vaccine may stimulate a cytotoxic T lymphocyte (CTL) response against CDCA1-expressing tumor cells, resulting in tumor cell lysis and decreased tumor cell proliferation. 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.