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Viagenpumatucel-L

National Cancer Institute

Source

National Cancer Institute. *Viagenpumatucel-L*. NCI Thesaurus. Code C61073.

A proprietary, allogeneic tumor cell vaccine expressing a recombinant secretory form of the heat shock protein gp96 fusion (gp96-Ig) with potential antineoplastic activity. Upon administration of viagenpumatucel-L, the irradiated live tumor cells continuously secrete gp96-Ig along with its chaperoned tumor associated antigens (TAAs) into the blood stream, thereby activating antigen presenting cells, natural killer cells and priming potent cytotoxic T lymphocytes (CTLs) to respond against TAAs on the endogenous tumor cells. Furthermore, this vaccine may induce long-lived memory T cells that could fight recurring cancer cells. gp96-Ig is constructed by replacing the KDEL retention sequence of gp96, normally an endoplasmatic reticulum-resident chaperone peptide, with the Fc portion of mouse and human IgG1.