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Indium In 111-Autologous CMV-pp65-LAMP mRNA Loaded Dendritic Cells

National Cancer Institute

Source

National Cancer Institute. <u>Indium In 111-Autologous CMV-pp65-LAMP mRNA Loaded</u>

Dendritic Cells. NCI Thesaurus. Code C162641.

A radioimmunoconjugate composed of mature autologous dendritic cells (DCs) generated from peripheral blood leukocytes pulsed with mRNA encoding for a fusion protein comprised of the human cytomegalovirus (CMV) matrix protein pp65 (65 kDa lower matrix phosphoprotein; UL83) fused with the lysosome-associated membrane protein (pp65-LAMP) and radiolabeled with the isotope indium In 111, with potential ability to track DC migration upon single-photon emission computed tomography (SPECT)/computed tomography (CT). Upon intradermal injection of the indium In 111-autologous CMV pp65-LAMP mRNA loaded DCs into the groin area, the DCs migrate in vivo to the inguinal lymph nodes. Upon SPECT/CT imaging, DC in vivo migration to the lymph nodes can be assessed.

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