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## Lutetium Lu 177-PSMA-617

National Cancer Institute

## Source

National Cancer Institute. <u>Lutetium Lu 177-PSMA-617</u>. NCI Thesaurus. Code C148145.

A radioconjugate composed of PSMA-617, a human prostate-specific membrane antigen (PSMA)-targeting ligand, conjugated to the beta-emitting radioisotope lutetium Lu 177 (177Lu), with potential antineoplastic activity against PSMA-expressing tumor cells. Upon intravenous administration of 177Lu-PSMA-617, the PSMA-617 moiety targets and binds to PSMA-expressing tumor cells. Upon binding, PSMA-expressing tumor cells are destroyed by 177Lu through the specific delivery of beta particle radiation. PSMA, a tumor-associated antigen and type II transmembrane protein, is expressed on the membrane of prostatic epithelial cells and overexpressed on prostate tumor cells.

Qeios ID: XTG4EP · https://doi.org/10.32388/XTG4EP