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Gallium Ga 68-P16-093

National Cancer Institute

Source

National Cancer Institute. *Gallium Ga 68-P16-093*. NCI Thesaurus. Code C148484.

A radioconjugate composed of a human prostate specific membrane antigen (PSMA)-targeting ligand (P16-093) conjugated to the radioisotope gallium Ga 68, via the acyclic radiometal chelator N,N'-bis [2-hydroxy-5-(carboxyethyl)benzyl] ethylenediamine-N,N'-diacetic acid (HBED-CC), with potential use as a tracer for PSMA-expressing tumors during positron emission tomography (PET). Upon intravenous administration of the gallium Ga 68 P16-093, the P16-093 moiety targets and binds to PSMA-expressing tumor cells. During PET imaging, PSMA-expressing tumor cells can be detected. PSMA, a tumor-associated antigen (TAA) and type II transmembrane protein, is expressed on the membrane of prostatic epithelial cells and overexpressed on prostate tumor cells.