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# Gallium Ga 68 PSMA-R2

National Cancer Institute

## Source

National Cancer Institute. *Gallium Ga 68 PSMA-R2*. NCI Thesaurus. Code C154382.

A radioconjugate composed of PSMA-R2, a human prostate-specific membrane antigen (PSMA)-targeting ligand, conjugated to the beta-emitting radioisotope gallium Ga 68, with potential imaging activity during positron emission topography/computed tomography (PET/CT). Upon administration of gallium Ga 68 PSMA-R2, the PSMA-R2 moiety targets and binds to PSMA-expressing tumor cells. This allows for visualization of PSMA-expressing cells upon imaging. PSMA, a tumor-associated antigen (TAA) and type II transmembrane protein, is expressed on the membrane of prostatic epithelial cells and overexpressed on the majority of prostate tumor cells.