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Gallium Ga 68 DOTA-JR11

National Cancer Institute

Source

National Cancer Institute. *Gallium Ga 68 DOTA-JR11*. NCI Thesaurus. Code C124930.

A radioconjugate consisting of the somatostatin antagonistic peptide JR11 that is linked, via the chelating agent dodecanetetraacetic acid (DOTA), to the beta-emitting radioisotope gallium Ga 68, with potential imaging activity during positron emission topography/computed tomography (PET/CT). Upon administration, gallium Ga 68-DOTA-JR11 binds to somatostatin receptors (SSTRs), with high affinity for SSTR2, present on the cell membranes of many types of neuroendocrine tumor (NET) cells. Upon binding and internalization, this radioconjugate can be used to quantify tumor uptake of JR11 using PET/CT. SSTRs have been shown to be present in large numbers on NETs and their metastases, while most normal tissues express low levels of SSTRs.