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# Technetium Tc-99m-NC100692

National Cancer Institute

## Source

National Cancer Institute. *Technetium Tc-99m-NC100692*. NCI Thesaurus. Code C85458.

A synthetic Arg-Gly-Asp (RGD)-containing cyclic peptide radiolabeled with technetium Tc 99m with integrin-binding and radioisotopic activities. Upon administration, technetium Tc 99m-NC100692 binds to alpha5beta3 integrin and to a lesser extent alpha5beta5; subsequently, alpha5beta3-expressing tumor cells can be visualized using scintigraphy and the degree of tumor angiogenesis can be determined. Integrins, membrane-spanning protein receptors, may be upregulated on proliferating endothelial cells; their overexpression has been associated with neovascularization, differentiation, proliferation of tumor cells and poor prognosis.