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# PSMA-targeting Agent-Techetium Tc99m EC0652

National Cancer Institute

## Source

National Cancer Institute. *PSMA-targeting Agent-Techetium Tc99m EC0652*. NCI Thesaurus. Code C136776.

A radioconjugate composed of 2-[3-(1, 3-dicarboxy propyl)-ureido] pentanedioic acid (DUPA), a prostate-specific membrane antigen (PSMA)-targeting ligand, linked to the radioisotope technetium Tc 99m (Tc99m), that can potentially be used as a radioimaging agent for PSMA-overexpressing tumor cells. Upon administration, the PSMA-targeting moiety of EC0652 targets and binds to PSMA-expressing tumors. Upon uptake and single-photon emission computed tomography (SPECT) imaging, PSMA-expressing tumors can be visualized and identified. In turn, PSMA-overexpression can be used to evaluate both the efficacy of and response to certain PSMA-targeting cytotoxic agents. PSMA, a tumor-associated antigen (TAA), is overexpressed by most prostate cancers.