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Iodine I 123 Anti-CEA Recombinant Diabody T84.66

National Cancer Institute

Source

National Cancer Institute. *Iodine I 123 Anti-CEA Recombinant Diabody T84.66*. NCI Thesaurus. Code C77911.

A radioimmunoconjugate comprised of a recombinant scFv dimer diabody of a monoclonal antibody against human carcinoembryonic antigen (CEA) labeled with iodine I 123 (I-123) with potential radioimmunolocalization applications. The antibody moiety of iodine I 123 anti-CEA recombinant diabody T84.66 binds to cells expressing CEA, selectively delivering I-123 upon cellular internalization and allowing the scintigraphic imaging of CEA-expressing tumor cells. CEA, a tumor associated antigen, is overexpressed in many cancer types, including gastrointestinal, breast, non-small cell lung, and thyroid cancers. Compared to whole monoclonal antibodies, diabody fragments offer the advantages of rapid tumor targeting, rapid blood clearance, more uniform tumor distribution, and a lower potential for eliciting an immune response.