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(54) Title: STABILIZED COMPOSITIONS OF RADIONUCLIDES AND USES THEREOF

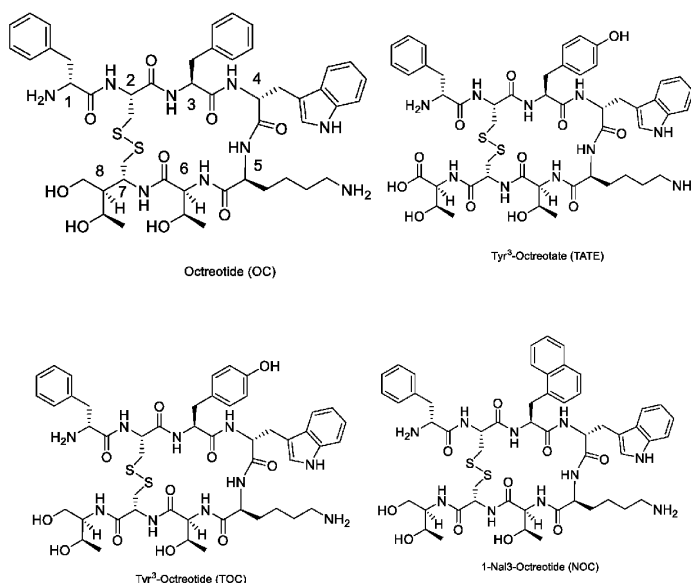


FIG. 2B

(57) Abstract: Provided herein are radiopharmaceutical compositions and uses thereof. The radiopharmaceutical compositions can comprise one or more stabilizing agents, an aqueous vehicle, and a conjugate that comprises a targeting ligand and a radionuclide bound to a metal chelator. The targeting ligand can be a small molecule compound or a peptide such as a monocyclic peptide. The targeting ligand can be configured to bind with a tumor target. The stabilizing agent can comprise a radiolysis stabilizer, a free metal chelator, and/or a pH stabilizer. Further provided herein are methods of preparing the radiopharmaceutical compositions and methods of treating cancer by administering the described radiopharmaceutical compositions.

[Continued on next page]

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