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Rhenium Re-186 Hydroxyethylidene Diphosphonate

National Cancer Institute

Source

National Cancer Institute. *Rhenium Re-186 Hydroxyethylidene Diphosphonate*. NCI Thesaurus. Code C1562.

An synthetic compound containing the organic phosphonate hydroxyethylidene diphosphonate (HEDP) labeled with the radioisotope rhenium Re 186. Re-186 hydroxyethylidene diphosphonate binds to hydroxyapatite in bone, delivering a cytotoxic dose of beta radiation to primary and metastatic bone tumors. Re-186 is a beta emitter with a short half-life, a radioisotope profile that provides localized antitumor radiocytotoxicity while sparing extramedullary bone marrow tissues.