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Sodium Borocaptate

National Cancer Institute

Source

National Cancer Institute. Sodium Borocaptate. NCI Thesaurus. Code C2208.

A boron-carrying compound. After parenteral administration, sodium borocaptate accumulates preferentially in tumor cells. When exposed to neutron irradiation, borocaptate absorbs neutrons and self-destructs releasing short-range alpha radiation and 'recoil' lithium in tumor cells, resulting in alpha radiation-induced tumor cell death. This highly selective, localized radiotargeting of tumor cells, known as boron neutron capture therapy (BNCT), spares adjacent normal tissues. (NCI04)