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Flutemetamol F 18

National Cancer Institute

Source

National Cancer Institute. *Flutemetamol F 18*. NCI Thesaurus. Code C90938.

A radiopharmaceutical containing flutemetamol, a thioflavin derivative of Pittsburgh compound B (PiB) labeled with the radioisotope fluorine F18 that can be used to detect beta-amyloid deposition upon positron emission tomography (PET). After intravenous administration of flutemetamol F 18, the flutemetamol moiety selectively accumulates in and binds to cerebral fibrillar amyloid-beta in the brain. The fluorine F18 radioisotope moiety is detected using PET, which allows imaging and quantification of amyloid-beta density. Amyloid plaque deposition is linked to cognitive decline, including Alzheimer's disease, and may be linked to chemotherapy-induced cognitive impairment (CICI).