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Carbon C 11 Pittsburgh Compound B

National Cancer Institute

Source

National Cancer Institute. <u>Carbon C 11 Pittsburgh Compound B</u>. NCI Thesaurus. Code C131211.

A radioconjugate composed of the beta-amyloid binding agent Pittsburgh compound B (PiB), a derivative of the amyloid-binding dye thioflavin T (ThT), that is conjugated to the radioisotope carbon C11, with potential amyloid imaging activity upon positron emission tomography (PET). Upon administration of carbon C 11 PiB, the PiB moiety targets and binds to beta-amyloid plaques in the brain, which can then be detected and analyzed using PET imaging. Increased production and concentration of amyloid beta protein and the deposition of amyloid plaques in the brain are correlated with the cognitive decline seen in neurodegenerative diseases, such as dementia, Alzheimer's disease (AD) and chemotherapy-induced cognitive impairment (CICI).

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