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Fluorine F18 T807

National Cancer Institute

Source

National Cancer Institute. *Fluorine F18 T807*. NCI Thesaurus. Code C131212.

A radioconjugate composed of the paired helical filament (PHF) tau binding agent T807, a benzimidazole pyrimidine derivative, conjugated to the radioisotope fluorine F 18, with potential tau positron emission tomography (PET) imaging activity. Upon administration of fluorine F18 T807, the T807 moiety targets and binds to PHF-tau in the brain, which allows PET imaging of PHF-tau and analysis of phosphorylated PHF-tau aggregates (neurofibrillary tangles). Increased levels of PHF-tau and neurofibrillary tangles are correlated with the cognitive decline seen in neurodegenerative diseases, such as dementia, Alzheimer's disease (AD) and chemotherapy-induced cognitive impairment (CICI).