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Fluorine F-18 Fluoropaclitaxel

National Cancer Institute

Source

National Cancer Institute. *Fluorine F-18 Fluoropaclitaxel*. NCI Thesaurus. Code C90580.

A radiotracer containing paclitaxel labeled with the radioisotope fluorine F18 with potential use as an imaging agent. After cellular uptake, the paclitaxel moiety of fluorine F18 fluoropaclitaxel binds to tubulin. Upon uptake, the radioisotope moiety may be detected using positron emission tomography (PET), thereby allowing imaging and quantification of the biodistribution of paclitaxel. This could identify multidrug resistant (MDR) status of tumor cells and select patients that will likely respond to paclitaxel treatment.