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18F-Fluoromisonidazole

National Cancer Institute

Source

National Cancer Institute. 18F-Fluoromisonidazole. NCI Thesaurus. Code C52180.

A radiofluorinated 2-nitroimidazole derivate with hypoxia-specific tracer activity. Misonidazole is reduced under hypoxic conditions and in reduced form covalently binds to macromolecules in hypoxic cells. 18F (fluorine-18) radiofluorination of misonidazole to form 18F-fluoromisonidazole allows radioisotopic imaging of reduced misonidazole bound to macromolecules in hypoxic cells.

Qeios ID: L59J2N · https://doi.org/10.32388/L59J2N