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Fluorine F 18-Active Site Inhibited Factor VIIa

National Cancer Institute

Source

National Cancer Institute. *Fluorine F 18-Active Site Inhibited Factor VIIa*. NCI Thesaurus. Code C157486.

A radioconjugate containing a tissue factor (TF) tracer, a derivative of activated factor VII (FVIIa), labeled with fluorine F 18, with potential use for TF-expressing tumor imaging using positron emission tomography (PET). Upon administration of fluorine F 18 active site inhibited factor VIIa (18F-ASIS), the active site inhibited factor VIIa (FVIIai) moiety selectively targets and binds, with a much higher binding affinity than FVIIa, to TF. Upon PET imaging, tumor cells expressing TF can be visualized and assessed. TF, a transmembrane glycoprotein, is overexpressed on certain tumor cell types and is correlated with tumor aggression and poor prognosis.