

Catalog Number: CM05612

产品信息

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CM05612

CAS号:
1415379-56-4

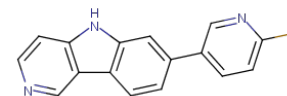
分子式:
 $C_{16}H_{10}FN_3$

主要靶点:
Microtubule Associated

主要通路:
细胞骨架

分子量:
263.27

溶解度:
DMSO:16.6 mg/mL (63.05 mM)



体外活性

In vitro autoradiography results show that [^{18}F]T807 exhibits strong binding to PHF-tau positive human brain sections with K_d of 14.6 nM. Comparison of autoradiography and double immunohistochemical staining of adjacent sections of PHF-tau and Ab showed that [^{18}F] T807 binding is colocalized with immunoreactive PHF-tau pathology, but does not highlight Ab plaques[1]. [^{18}F]T807 strongly binds to tau lesions primarily made of paired helical filaments in Alzheimer's brains e.g. intra and extraneuronal tangles and dystrophic neurites. [^{18}F]T807 off-target binding to neuromelanin- and melanin-containing cells and, to a lesser extent, to brain hemorrhagic lesions is identified[2].

体内活性

[^{18}F]T807 can cross the blood-brain barrier and is shed out quickly in mice models. [^{18}F]T807 clears rapidly from the brain, with activity values decreasing from 4.43% ID/g at 5 minutes to 0.62% ID/g at 30 minutes. Kidney elimination is a significant clearance pathway, resulting in a maximum tracer concentration of 14.99% ID/g in the kidneys at 5 minutes, which decreases to 5.52% ID/g at 30 minutes. The accumulation of activity in muscle and bone remain relatively low throughout the PET scan[1].

描述

T807 is a novel tracer of tau positron emission tomography (PET).

储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years