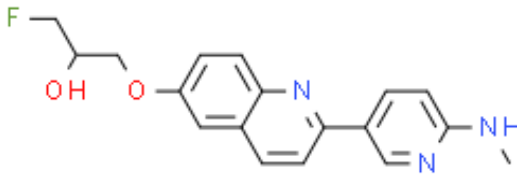
Product Data Sheet

Cas No.:	1707147-26-9	Cat. No:	PL11575
Product Name:	THK5351		
Product synonym:	THK5351		
Chemical name:	THK5351		
MF:	C18H18FN3O2	FW:	327.352827548981
Purity:	≥98%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	O[C@@H](COC1=CC=C2N=C(C3=CC=C(NC)N=C3)C=CC2=C1)CF		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

THK5351被放射性标记后可作为放射性示踪剂，用于研究大脑中tau病理成像。

生物活性	THK5351 can be radiolabeled and used as a radiotracer for in vivo imaging of tau pathology in the brain.
体外研究(In Vitro)	Aggregated tau protein is a major neuropathological substrate central to the pathophysiology of neurodegenerative diseases such as Alzheimers disease (AD). F-THK5351 binds to Alzheimer disease hippocampal homogenates with high affinity (Kd=2.9 nM; maximum number of binding sites=368.3 pmol/g tissue). It has fast dissociation from white-matter tissue. The THK5351 binding amount correlates with the amount of tau deposits in tissue. has not independently confirmed the accuracy of these methods. They are for reference only.

体内研究(In Vivo)	THK5351 exhibits favorable pharmacokinetics and no defluorination in mice. F-THK5351 enters the brain immediately after intravenous injection and shows a fast washout from the brain. At 0.1 and 1 mg/kg, no animals died and no treatment-related changes in any animal are noted in clinical observations, body weight measurement, and pathologic examination. Autoradiography in the brain sections of patients with PSP demonstrates [H]THK-5351 binding to tau deposits with a high selectivity. Although patients with PSP exhibits no remarkable [F]THK-5351 retention in the temporal cortex, significantly higher tracer retention is observed in the globus pallidus and midbrain. has not independently confirmed the accuracy of these methods. They are for reference only.
包装储存	Powder -20°C 3 years； 4°C 2 years
溶解度数据	In Vitro: DMSO : 50 mg/mL (152.74 mM; Need ultrasonic)配制储备液