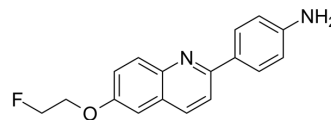


## THK-523

Cat. No.:	HY-100723
CAS No.:	1573029-17-0
Molecular Formula:	C <sub>17</sub> H <sub>15</sub> FN <sub>2</sub> O
Molecular Weight:	282.31
Target:	Amyloid-β
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	THK-523 has demonstrated its high affinity and selectivity for tau pathology both in vitro and in vivo. <sup>18</sup> F-THK523 is a potent tau imaging radiotracer. <sup>18</sup> F-THK523 is a potent in vivo tau imaging ligand for Alzheimer's disease <sup>[1]</sup> .								
<b>In Vivo</b>	<p>THK-523 crosses the blood-brain barrier in mice and the in vivo retention rate in the brain of Tau transgenic mice increased [1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Brain of tau transgenic mice<sup>[1]</sup></td> </tr> <tr> <td>Dosage:</td> <td>0.35 μg/kg</td> </tr> <tr> <td>Administration:</td> <td>Intravenous injection;25-30 mins</td> </tr> <tr> <td>Result:</td> <td>Overexpressed Tau in brain.</td> </tr> </table>	Animal Model:	Brain of tau transgenic mice <sup>[1]</sup>	Dosage:	0.35 μg/kg	Administration:	Intravenous injection;25-30 mins	Result:	Overexpressed Tau in brain.
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### REFERENCES

- [1]. Ryuichi Harada, et al. Comparison of the binding characteristics of [<sup>18</sup>F]THK-523 and other amyloid imaging tracers to Alzheimer's disease pathology. *Eur J Nucl Med Mol Imaging*. 2013 Jan;40(1):125-32.
- [2]. Michelle T Fodero-Tavoletti, <sup>18</sup>F-THK523: a novel in vivo tau imaging ligand for Alzheimer's disease. *Brain*. 2011 Apr;134(Pt 4):1089-100.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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