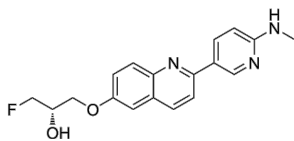


# THK5351

货号: **B26733**

## 产品信息

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| 生物活性 | THK5351 can be radiolabeled and used as a radiotracer for <i>in vivo</i> imaging of <b>tau</b> pathology in the brain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| CAS  | 1707147-26-9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 中文名称 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 分子量  | 327.35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 体外研究 | <p>Aggregated tau protein is a major neuropathological substrate central to the pathophysiology of neurodegenerative diseases such as Alzheimer's disease (AD). <sup>18</sup>F-THK5351 binds to Alzheimer disease hippocampal homogenates with high affinity (<math>K_d=2.9</math> 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.</p> <p><b>The accuracy of these methods have not been independently confirmed. They are for reference only.</b></p> |
| 体内研究 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 形式   | Solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 运输条件 | Room temperature in continental US; may vary elsewhere.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 保存条件 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| 溶解性   | <p>In Vitro:</p> <p><b>DMSO : 50 mg/mL (152.74 mM; Need ultrasonic)</b></p> <p>配制储备液</p> <table><tr><th>浓度</th><th>溶剂</th><th>体积</th><th>质量</th><th>1 mg</th><th>5 mg</th><th>10 mg</th></tr><tr><td>1 mM</td><td>3.0548 mL</td><td>15.2742 mL</td><td>30.5483 mL</td><td></td><td></td><td></td></tr><tr><td>5 mM</td><td>0.6110 mL</td><td>3.0548 mL</td><td>6.1097 mL</td><td></td><td></td><td></td></tr><tr><td>10 mM</td><td>0.3055 mL</td><td>1.5274 mL</td><td>3.0548 mL</td><td></td><td></td><td></td></tr></table> <p>*</p> <p>请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。</p> <p>储备液的保存方式和期限：-80℃, 6 months; -20℃, 1 month。 -80℃ 储存时，请在 6 个月内使用，-20℃ 储存时，请在 1 个月内使用。</p> <p>In Vivo:</p> <p>请根据您的<a href="#">实验动物</a>和<a href="#">给药方式</a>选择适当的溶解方案。以下溶解方案都请先按照 <b>In Vitro</b> 方式配制澄清的储备液，再依次添加助溶剂：</p> <p>——为保证实验结果的可靠性，澄清的储备液可以根据储存条件，适当保存；体内实验的工作液，建议您现用现配，当天使用； 以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比；如在配制过程中出现沉淀、析出现象，可以通过加热和/或超声的方式助溶</p> <ul style="list-style-type: none"><li>1.<br/>请依序添加每种溶剂： 10% DMSO    40% <a href="#">PEG300</a>    5% <a href="#">Tween-80</a>    45% saline<br/>Solubility: ≥ 2.5 mg/mL (7.64 mM); Clear solution<br/>此方案可获得 ≥ 2.5 mg/mL (7.64 mM，饱和度未知) 的澄清溶液。<br/>以 1 mL 工作液为例，取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 400 μL PEG300 中，混合均匀；向上述体系中加入50 μL Tween-80，混合均匀；然后继续加入 450 μL生理盐水定容至 1 mL。<br/>将 0.9 g 氯化钠，完全溶解于 100 mL ddH<sub>2</sub>O 中，得到澄清透明的生理盐水溶液</li><li>2.<br/>请依序添加每种溶剂： 10% DMSO    90% (20% <a href="#">SBE-β-CD</a> in saline)<br/>Solubility: ≥ 2.5 mg/mL (7.64 mM); Clear solution<br/>此方案可获得 ≥ 2.5 mg/mL (7.64 mM，饱和度未知) 的澄清溶液。<br/>以 1 mL 工作液为例，取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 20% 的 SBE-β-CD 生理盐水水溶液中，混合均匀。<br/>将 2 g 磺丁基醚 β-环糊精加入 5 mL 生理盐水中，再用生理盐水定容至 10 mL，完全溶解，澄清透明</li><li>3.<br/>请依序添加每种溶剂： 10% DMSO    90% <a href="#">corn oil</a><br/>Solubility: ≥ 2.5 mg/mL (7.64 mM); Clear solution<br/>此方案可获得 ≥ 2.5 mg/mL (7.64 mM，饱和度未知) 的澄清溶液，此方案不适用于实验周期在半个月以上的实验。<br/>以 1 mL 工作液为例，取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL玉米油中，混合均匀。</li></ul> <p>*以上所有助溶剂都可在 <a href="#">MCE</a> 网站选购。</p> | 浓度         | 溶剂         | 体积   | 质量   | 1 mg  | 5 mg | 10 mg | 1 mM | 3.0548 mL | 15.2742 mL | 30.5483 mL |  |  |  | 5 mM | 0.6110 mL | 3.0548 mL | 6.1097 mL |  |  |  | 10 mM | 0.3055 mL | 1.5274 mL | 3.0548 mL |  |  |  |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|------|------|-------|------|-------|------|-----------|------------|------------|--|--|--|------|-----------|-----------|-----------|--|--|--|-------|-----------|-----------|-----------|--|--|--|
| 浓度    | 溶剂                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 体积         | 质量         | 1 mg | 5 mg | 10 mg |      |       |      |           |            |            |  |  |  |      |           |           |           |  |  |  |       |           |           |           |  |  |  |
| 1 mM  | 3.0548 mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 15.2742 mL | 30.5483 mL |      |      |       |      |       |      |           |            |            |  |  |  |      |           |           |           |  |  |  |       |           |           |           |  |  |  |
| 5 mM  | 0.6110 mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.0548 mL  | 6.1097 mL  |      |      |       |      |       |      |           |            |            |  |  |  |      |           |           |           |  |  |  |       |           |           |           |  |  |  |
| 10 mM | 0.3055 mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.5274 mL  | 3.0548 mL  |      |      |       |      |       |      |           |            |            |  |  |  |      |           |           |           |  |  |  |       |           |           |           |  |  |  |
| 纯度    | 98.94%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |            |      |      |       |      |       |      |           |            |            |  |  |  |      |           |           |           |  |  |  |       |           |           |           |  |  |  |