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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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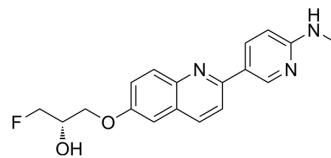
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THK5351

| | | | |
|--------------------|--|-------|---------|
| Cat. No.: | HY-101183 | | |
| CAS No.: | 1707147-26-9 | | |
| Molecular Formula: | C ₁₈ H ₁₈ FN ₃ O ₂ | | |
| Molecular Weight: | 327.35 | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 2 years |
| | | -20°C | 1 year |



SOLVENT & SOLUBILITY

| | | | | | | | |
|---|--|-----------------------|------|-------|-----------|------------|------------|
| In Vitro | DMSO : 50 mg/mL (152.74 mM; Need ultrasonic) | | | | | | |
| | Preparing Stock Solutions | Solvent Concentration | Mass | 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 |
| Please refer to the solubility information to select the appropriate solvent. | | | | | | | |
| In Vivo | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.64 mM); Clear solution | | | | | | |
| | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.64 mM); Clear solution | | | | | | |
| | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.64 mM); Clear solution | | | | | | |

BIOLOGICAL ACTIVITY

| | |
|-------------|--|
| Description | THK5351 can be radiolabeled and used as a radiotracer for in vivo imaging of tau pathology in the brain. |
| In Vitro | Aggregated tau protein is a major neuropathological substrate central to the pathophysiology of neurodegenerative diseases such as Alzheimer's disease (AD). ¹⁸ F-THK5351 binds to Alzheimer disease hippocampal homogenates with high affinity (K _d =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 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |
| In Vivo | THK5351 exhibits favorable pharmacokinetics and no defluorination in mice. ¹⁸ 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^[1]. Autoradiography in the brain sections of patients with PSP demonstrates [³H]THK-5351 binding to tau deposits with a high selectivity. Although patients with PSP exhibits no remarkable [¹⁸F]THK-5351 retention in the temporal cortex, significantly higher tracer retention is observed in the globus pallidus and midbrain^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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

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