L 152804

**Product Data Sheet**

**Cat. No.:** HY-107734  
**CAS No.:** 6508-43-6  
**Molecular Formula:** C₂₃H₂₆O₄  
**Molecular Weight:** 366.45  
**Target:** Neuropeptide Y Receptor  
**Pathway:** GPCR/G Protein  
**Storage:**  
- Powder: -20°C for 3 years, 4°C for 2 years  
- In solvent: -80°C for 6 months, -20°C for 1 month

**SOLVENT & SOLUBILITY**

**In Vitro**  
DMSO: ≥ 125 mg/mL (341.11 mM)  
*“≥” means soluble, but saturation unknown.*

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.7289 mL</td>
<td>13.6444 mL</td>
<td>27.2889 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5458 mL</td>
<td>2.7289 mL</td>
<td>5.4578 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2729 mL</td>
<td>1.3644 mL</td>
<td>2.7289 mL</td>
<td></td>
</tr>
</tbody>
</table>

Preparing Stock Solutions  
10 mM: 0.2729 mL; 1.3644 mL; 2.7289 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: ≥ 2.08 mg/mL (5.68 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
   Solubility: ≥ 2.08 mg/mL (5.68 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 2.08 mg/mL (5.68 mM); Clear solution

**BIOLOGICAL ACTIVITY**

**Description**  
L 152804 is an orally active and selective neuropeptide Y Y5 receptor (NPYS5-R) antagonist, with a $K_i$ of 26 nM for hY5. L 152804 causes weight loss in diet-induced obese mice by modulating food intake and energy expenditure\(^1\)\(^2\).

**IC$_{50}$ & Target**  
$K_i$: 26 nM (NPYS5-R)\(^1\).
L 152804 displays > 300-fold selectivity over hY1, hY2, and hY4 receptors[1].

REFERENCES


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