Taltirelin

Cat. No.: HY-B0596
CAS No.: 103300-74-9
Molecular Formula: C₁₇H₂₃N₇O₅
Molecular Weight: 405.41
Target: Others
Pathway: Others
Storage: Powder
-20°C 3 years
4°C 2 years
In solvent
-80°C 6 months
-20°C 1 month

Solvent & Solubility

In Vitro

DMSO: ≥ 32 mg/mL (78.93 mM)

* “≥” means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>Mass</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mg</td>
<td>2.4666 mL</td>
<td>12.3332 mL</td>
</tr>
<tr>
<td>5 mg</td>
<td>0.4933 mL</td>
<td>2.4666 mL</td>
</tr>
<tr>
<td>10 mg</td>
<td>0.2467 mL</td>
<td>1.2333 mL</td>
</tr>
</tbody>
</table>

Solutions

Preparing Stock Solutions

10 mM

0.2467 mL
1.2333 mL
2.4666 mL

Bioavailability

Taltirelin, a novel orally active TRH analogue, binds to rat brain TRH receptors in vivo. Target: Others. Taltirelin, a novel orally active TRH analogue, binds to rat brain TRH receptors in vivo. Effects of taltirelin hydrate (CAS 103300-74-9, TA-0910), a novel thyrotropin-releasing hormone (TRH) analog, on the cerebral monoamine systems, especially the release and turnover of dopamine (DA) in rat brain were compared with those of TRH by intraperitoneal administration. Taltirelin hydrate (1-10 mg/kg) increased the extracellular levels of DA and its metabolites, 3,4-dihydroxyphenylacetic acid (DOPAC) and homovanillic acid (HVA) in the nucleus accumbens and corpus striatum for 3 h in a microdialysis study. Taltirelin hydrate possesses not only an enhancing effect on DA release, but also a stimulating effect on the monoamine system [1]. Taltirelin selectively bound to TRH receptors and increased the spontaneous motor activity by a single administration, suggesting that the motor effect of taltirelin is mediated by TRH receptors [2].

References

[1] [2]

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