Aleglitazar

Cat. No.: HY-14728
CAS No.: 475479-34-6
Molecular Formula: C₂₄H₂₃NO₅S
Molecular Weight: 437.51
Target: PPAR
Pathway: Cell Cycle/DNA Damage
Storage:
- Powder
  - -20°C: 3 years
  - 4°C: 2 years
- In solvent
  - -80°C: 6 months
  - -20°C: 1 month

Solvent & Solubility

In Vitro: 10 mM in DMSO

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td></td>
<td>2.2857 mL</td>
<td>11.4283 mL</td>
<td>22.8566 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td></td>
<td>0.4571 mL</td>
<td>2.2857 mL</td>
<td>4.5713 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td></td>
<td>0.2286 mL</td>
<td>1.1428 mL</td>
<td>2.2857 mL</td>
</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description: Aleglitazar (R1439; RO-0728804) is a new dual PPAR-α/γ agonist with IC50 of 2.8 nM/4.6 nM. IC50 Value: 2.8 nM (PPAR-α); 4.6 nM (PPAR-γ). Target: PPARα/γ. Aleglitazar is a dual peroxisome proliferator-activated receptor (PPAR) agonist, with affinity to PPARα and PPARγ. Aleglitazar is being developed for the treatment of type II diabetes; it is currently in phase III clinical trials. In preliminary clinical studies, Aleglitazar has been demonstrated to improve hyperglycemia and dyslipidemia in patients with type 2 diabetes mellitus. Aleglitazar has beneficial effects on both lipid and glucose parameters and may have a therapeutic role in modifying cardiovascular risk factors and improving glycemic control in patients with T2DM. Aleglitazar combines the lipid benefits of fibrates and the insulin-sensitizing benefits of thiazolidinediones.

IC50 & Target:
- PPARγ, IC50: 19 nM
- PPARα, IC50: 38 nM

REFERENCES

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