BVT 2733

Cat. No.: HY-18054
CAS No.: 376640-41-4
Molecular Formula: C₁₇H₂₁ClN₄O₃S₂
Molecular Weight: 428.96
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

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Concentration</th>
<th>Mass (1 mg)</th>
<th>Mass (5 mg)</th>
<th>Mass (10 mg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>10 mM</td>
<td>2.3312 mL</td>
<td>11.6561 mL</td>
<td>23.3122 mL</td>
</tr>
<tr>
<td></td>
<td>1 mM</td>
<td>2.3312 mL</td>
<td>11.6561 mL</td>
<td>23.3122 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.4662 mL</td>
<td>2.3312 mL</td>
<td>4.6624 mL</td>
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<tr>
<td></td>
<td>10 mM</td>
<td>0.2331 mL</td>
<td>1.1656 mL</td>
<td>2.3312 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
BVT 2733 is a new, small molecule, non-steroidal, isoform-selective inhibitor of 11beta-hydroxysteroid dehydrogenase type 1 (11β-HSD1). IC50 value:
Target: 11β-HSD1 inhibitor
in vitro: BVT 2733 lowered hepatic PEPCK and glucose-6-phosphatase mRNA, blood glucose and serum insulin concentrations compared with vehicle treated mice [1]. CIA mice were treated with BVT-2733 (100 mg/kg, orally) or vehicle twice daily for 2 weeks. BVT-2733 treatment attenuated the arthritis severity and anti-CII level in CIA mice. BVT-2733 also decreased the levels of serum TNF-α, IL-1β, IL-6 and IL-17. BVT-2733 treatment also significantly reduced synovial inflammation and joint destruction [2]. Mice receiving BVT 2733 treatment exhibited decreased body weight and enhanced glucose tolerance and insulin sensitivity compared to control mice. BVT 2733 also down-regulated the expression of inflammation-related genes including monocyte chemoattractant protein 1 (MCP-1), tumor necrosis factor alpha (TNF-α) and the number of infiltrated macrophages within the adipose tissue in vivo [3].

REFERENCES

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Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA